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SINCE THE THIRD EDITION OF THIS STANDARD WORK IN 1999 THERE HAS BEEN A SIGNIFICANT INCREASE IN THE AMOUNT OF CHOCOLATE MANUFACTURED WORLDWIDE THE FOURTH EDITION OF INDUSTRIAL CHOCOLATE MANUFACTURE AND USE PROVIDES UP TO DATE COVERAGE OF ALL MAIOR ASPECTS OF CHOCOLATE MANUFACTURE AND USE FROM THE GROWING OF COCOA BEANS TO THE PACKAGING AND MARKETING OF THE END PRODUCT RETAINING THE IMPORTANT AND WELL RECEIVED KEY FEATURES OF THE PREVIOUS EDITION THE FOURTH EDITION ALSO CONTAINS COMPLETELY NEW CHAPTERS COVERING CHOCOLATE CRUMB COLD FORMING TECHNOLOGIES INTELLECTUAL PROPERTY AND NUTRITION FURTHERMORE TAKING ACCOUNT OF SIGNIFICANT CHANGES AND TRENDS WITHIN THE CHOCOLATE INDUSTRY MUCH NEW INFORMATION IS INCORPORATED PARTICULARLY WITHIN SUCH CHAPTERS AS THOSE COVERING THE CHEMISTRY OF FLAVOUR DEVELOPMENT CHOCOLATE FLOW PROPERTIES CHOCOLATE PACKAGING AND CHOCOLATE MARKETING THIS FULLY REVISED AND EXPANDED NEW EDITION IS AN ESSENTIAL PURCHASE FOR ALL THOSE INVOLVED IN THE MANUFACTURE AND USE OF CHOCOLATE SINCE THE PUBLICATION OF THE FIRST EDITION OF INDUSTRIAL CHOCOLATE MANUFACTURE AND USE IN 1988 IT HAS BECOME THE LEADING TECHNICAL BOOK FOR THE INDUSTRY FROM THE BEGINNING IT WAS RECOGNISED THAT THE COMPLEXITY OF THE CHOCOLATE INDUSTRY MEANS THAT NO SINGLE PERSON CAN BE AN EXPERT IN EVERY ASPECT OF IT FOR EXAMPLE THE ACADEMIC VIEW OF A PROCESS SUCH AS CRYSTALLISATION CAN BE VERY DIFFERENT FROM THAT OF A TEMPERING MACHINE OPERATOR SO SOME TOPICS HAVE MORE THAN ONE CHAPTER TO TAKE THIS INTO ACCOUNT IT IS ALSO KNOWN THAT THE BIGGEST SELLING CHOCOLATE IN SAY THE USA TASTES VERY DIFFERENT FROM THAT IN THE UK SO THE AUTHORS IN THE BOOK WERE CHOSEN FROM A WIDE VARIETY OF COUNTRIES MAKING THE BOOK TRULY INTERNATIONAL EACH NEW EDITION IS A MIXTURE OF UPDATES REWRITES AND NEW TOPICS IN THIS BOOK THE NEW SUBJECTS INCLUDE ARTISAN OR CRAFT SCALE PRODUCTION COMPOUND CHOCOLATES AND SENSORY THIS BOOK IS AN ESSENTIAL PURCHASE FOR ALL THOSE INVOLVED IN THE MANUFACTURE USE AND SALE OF CHOCOLATE CONTAINING PRODUCTS ESPECIALLY FOR CONFECTIONERY AND CHOCOLATE SCIENTISTS ENGINEERS AND TECHNOLOGISTS WORKING BOTH IN INDUSTRY AND ACADEMIA THE NEW EDITION ALSO BOASTS TWO NEW CO EDITORS MARK FOWLER AND GREG ZIEGLER BOTH OF WHOM HAVE CONTRIBUTED CHAPTERS TO PREVIOUS EDITIONS OF THE BOOK MARK FOWLER HAS HAD A LONG CAREER AT NESTLE UK WORKING IN COCOA AND CHOCOLATE RESEARCH AND DEVELOPMENT HE IS RETIRING IN 2013 GREG ZIEGLER IS A PROFESSOR IN THE FOOD SCIENCE DEPARTMENT AT PENN STATE UNIVERSITY IN THE USA THIS SECOND EDITION PROVIDES INFORMATION ON RECENT ADVANCES IN THE SCIENCE AND TECHNOLOGY OF CHOCOLATE MANUFACTURE AND THE ENTIRE INTERNATIONAL COCOA INDUSTRY IT PROVIDES DETAILED REVIEW ON A WIDE RANGE OF TOPICS INCLUDING COCOA PRODUCTION COCOA AND CHOCOLATE MANUFACTURING OPERATIONS SENSORY PERCEPTION OF CHOCOLATE QUALITY FLAVOUR RELEASE AND PERCEPTION SUGAR REPLACEMENT AND ALTERNATIVE SWEETENING SOLUTIONS IN CHOCOLATE PRODUCTION INDUSTRIAL MANUFACTURE OF SUGAR FREE CHOCOLATES AS WELL AS THE NUTRITION AND HEALTH BENEFITS OF COCOA AND CHOCOLATE CONSUMPTION THE TOPICS COVER MODERN COCOA CULTIVATION AND PRODUCTION PRACTICES WITH SPECIAL ATTENTION ON COCOA BEAN COMPOSITION GENOTYPIC VARIATIONS IN THE BEAN POST HARVEST PRE TREATMENTS FERMENTATION AND DRYING PROCESSES AND THE BIOCHEMICAL BASIS OF THESE OPERATIONS THE SCIENTIFIC PRINCIPLES BEHIND INDUSTRIAL CHOCOLATE MANUFACTURE ARE OUTLINED WITH DETAILED EXPLANATIONS OF THE VARIOUS STAGES OF CHOCOLATE MANUFACTURING INCLUDING MIXING REFINING CONCHING AND TEMPERING OTHER TOPICS COVERED INCLUDE THE CHEMISTRY OF FLAVOUR FORMATION AND DEVELOPMENT DURING COCOA PROCESSING AND CHOCOLATE MANUFACTURE VOLATILE FLAVOUR COMPOUNDS AND THEIR CHARACTERISTICS AND IDENTIFICATION SENSORY DESCRIPTIONS AND CHARACTER AND FLAVOUR RELEASE AND PERCEPTION IN CHOCOLATE THE NUTRITIONAL AND HEALTH BENEFITS OF COCOA AND CHOCOLATE CONSUMPTION AS WELL AS THE APPLICATION OF HACCP AND OTHER FOOD SAFETY MANAGEMENT SYSTEMS SUCH AS ISO 22 000 IN THE CHOCOLATE PROCESSING INDUSTRY ARE ALSO ADDRESSED ADDITIONALLY DETAILED RESEARCH ON THE INFLUENCE OF DIFFERENT RAW MATERIALS AND PROCESSING OPERATIONS ON THE FLAVOUR AND OTHER QUALITY CHARACTERISTICS OF CHOCOLATES HAVE BEEN PROVIDED WITH SCOPE FOR PROCESS OPTIMIZATION AND IMPROVEMENT THE BOOK IS INTENDED TO BE A DESK REFERENCE FOR ALL THOSE ENGAGED IN THE BUSINESS OF MAKING AND USING CHOCOLATE WORLDWIDE CONFECTIONERY AND CHOCOLATE SCIENTISTS IN INDUSTRY AND ACADEMIA STUDENTS AND PRACTISING FOOD SCIENTISTS AND TECHNOLOGISTS NUTRITIONISTS AND OTHER HEALTH PROFESSIONALS AND LIBRARIES OF INSTITUTIONS WHERE AGRICULTURE FOOD SCIENCE AND NUTRITION IS STUDIED AND RESEARCHED THERE ARE SUPRISING FEW BOOKS ON THE SUBJECT OF CHOCOLATE MANUFACTURE AND THIS VOLUME WILL UNDOUBTEDLY CONTINUE TO LEAD THE FIELD TRENDS IN FOOD SCIENCE AND TECHNOLOGY THE AUTHORS HAD FIVE OBJECTIVES IN PREPARING THIS BOOK I TO BRING TOGETHER RELEVANT INFORMATION ON MANY RAW MATERIALS USED IN THE MANUFACTURE OF SWEETS AND CHOCOLATE II TO DESCRIBE THE PRINCIPLES INVOLVED AND TO RELATE THEM TO PRODUCTION WITH MAXIMUM ECONOMY BUT MAINTAINING HIGH QUALITY III TO DESCRIBE BOTH TRADITIONAL AND MODERN PRODUCTION PROCESSES IN PAR TICULAR THOSE CONTINUOUS METHODS WHICH ARE FINDING INCREASING APPLICATION IV TO GIVE BASIC RECIPES AND METHODS SET OUT IN A FORM FOR EASY REFERENCE FOR PRODUCING A LARGE VARIETY OF SWEETS AND CAPABLE OF EASY MODIFICATION TO SUIT THE RAW MATERIALS AND PLANT AVAILABLE V TO EXPLAIN THE ELEMENTARY CALCULATIONS MOST LIKELY TO BE REQUIRED THE VARIOUS CHECK LISTS AND CHARTS SHOWING THE MORE LIKELY FAULTS AND HOW TO ELIMINATE THEM REFLECT THE FACT THAT ART STILL PLAYS NO SMALL PART IN THIS INDUSTRY TO HELP USERS ALL OVER THE WORLD WHATEVER UNITS THEY EMPLOY MOST FOR MULATIONS ARE GIVEN IN PARTS BY WEIGHT BUT TABLES OF CONVERSION FACTORS ARE PROVIDED AT THE END OF THE BOOK THERE ALSO WILL BE FOUND A COLLECTION OF OTHER GENERAL REFERENCE DATA IN TABULAR FORM WHILE THE

GLOSSARY EXPLAINS A NUMBER OF TECHNICAL TERMS MANY OF THEM PECULIAR TO THE INDUSTRY CHOCOLATE IS AVAILABLE TO TODAY S CONSUMERS IN A VARIETY OF COLOURS SHAPES AND TEXTURES BUT HOW MANY OF US AS WE SAVOUR OUR FAVOURITE BRAND CONSIDER THE SCIENCE THAT HAS GONE INTO ITS MANUFACTURE THIS BOOK DESCRIBES THE COMPLETE CHOCOLATE MAKING PROCESS FROM THE GROWING OF THE BEANS TO THE SALE IN THE SHOPS THE SCIENCE OF CHOCOLATE FIRST DESCRIBES THE HISTORY OF THIS INTRIGUING SUBSTANCE SUBSEQUENT CHAPTERS COVER THE INGREDIENTS AND PROCESSING TECHNIQUES ENABLING THE READER TO DISCOVER NOT ONLY HOW CONFECTIONERY IS MADE BUT ALSO HOW BASIC SCIENCE PLAYS A VITAL ROLE WITH COVERAGE OF SCIENTIFIC PRINCIPLES SUCH AS LATENT AND SPECIFIC HEAT MAILLARD REACTIONS AND ENZYME PROCESSES THERE IS ALSO DISCUSSION OF THE MONITORING AND CONTROLLING OF THE PRODUCTION PROCESS AND THE IMPORTANCE AND VARIETY OF THE PACKAGING USED TODAY A SERIES OF EXPERIMENTS WHICH CAN BE ADAPTED TO SUIT STUDENTS OF ALMOST ANY AGE IS INCLUDED TO DEMONSTRATE THE PHYSICAL CHEMICAL OR MATHEMATICAL PRINCIPLES INVOLVED IDEAL FOR THOSE STUDYING FOOD SCIENCE OR ABOUT TO JOIN THE CONFECTIONERY INDUSTRY THIS MOUTH WATERING TITLE WILL ALSO BE OF INTEREST TO ANYONE WITH A DESIRE TO KNOW MORE ABOUT THE PRODUCTION OF THE WORLD S FAVOURITE CONFECTIONERY THE SCIENCE OF CHOCOLATE LEADS THE READER TO AN UNDERSTANDING OF THE COMPLETE CHOCOLATE MAKING PROCESS AND INCLUDES THE WAYS IN WHICH BASIC SCIENCE PLAYS A VITAL ROLE IN ITS MANUFACTURE TESTING AND CONSUMPTION ORIGINALLY BASED UPON A TALK TO ENCOURAGE SCHOOL CHILDREN TO STUDY SCIENCE THE BOOK IS NOW WIDELY USED WITHIN INDUSTRY AND ACADEMIA THE THIRD EDITION OF THIS INTERNATIONAL BEST SELLER HAS BEEN FULLY REVISED AND UPDATED THE AUTHOR HAS NOW INCLUDED METHODS OF SENSORY EVALUATION DESIGNING AND MODIFYING CHOCOLATE FLAVOUR TO SUIT THE PRODUCT AND THE HISTORY AND MANUFACTURE OF SOME WELL KNOWN CONFECTIONERY PRODUCTS FAT CALORIE AND SUGAR REDUCTION ARE ALSO COVERED INCLUDING A REVIEW OF PATENTS IN THIS AREA IN ADDITION THE SECTION ON WHY CHOCOLATE MIGHT BE GOOD FOR YOU HAS BEEN UPDATED TO INCLUDE SOME MORE RECENT RESEARCH RESULTS THREE NEW EXPERIMENTS HAVE BEEN ADDED SO THERE ARE NOW TWENTY OF THEM WHICH USE SIMPLE MATERIALS AND APPARATUS TO DEMONSTRATE THE SCIENTIFIC AND MATHEMATICAL PRINCIPLES FOUND IN THE REST OF THE BOOK MOST ARE EASILY ADAPTED TO SUIT DIFFERENT STUDENT ABILITIES THIS BOOK WILL APPEAL TO THOSE WITH A FASCINATION FOR CHOCOLATE AND WILL BE OF SPECIALIST INTEREST TO THOSE STUDYING FOOD SCIENCES AND WORKING IN THE CONFECTIONERY INDUSTRY EXTRACTS FROM REVIEWS OF 2ND EDITION I FOUND THIS TO BE AN INTERESTING READ AND I THINK THE BOOK WOULD BE USEFUL TO GRADUATES THINKING OF A CAREER IN THE FOOD INDUSTRY AND NOT JUST THE CHOCOLATE INDUSTRY SPECIFICALLY TO SCHOOLTEACHERS LOOKING FOR SOME INTERESTING EXPERIMENTS AND TO LECTURERS CHEMISTRY BIOCHEMISTRY BOTANY FOOD SCIENCE LOOKING FOR INTERESTING FACTS TO ENLIVEN THEIR LECTURES BIOSCIENCE EDUCATION VOLUME 12 2008 E I WOOD VERY WELL WRITTEN AND COMPLETE BOOK FOR EVERYONE WHO WANTS TO LEARN MORE ABOUT CHOCOLATE AND ITS PRODUCTION PROCESS CRYSTALLOGRAPHY REVIEWS VOLUME 15 2009 ISSUE 4 PAGES 275 277 HENK SCHENK THE EASY READING STYLE OF THE BOOK MAKES IT VALUABLE NOT ONLY TO SCHOOL AND UNIVERSITY STUDENTS BUT ALSO TO THOSE WHO ARE NEW TO WORKING WITH CHOCOLATE OR THOSE NEEDING A GOOD SUMMARY OF CHOCOLATE SCIENCE CHEMISTRY WORLD FOR THE CHRISTMAS BOOKS CONFECTIONERY AND CHOCOLATE MANUFACTURE HAS BEEN DOMINATED BY LARGE SCALE INDUSTRIAL PROCESSING FOR SEVERAL DECADES IT IS OFTEN THE CASE THOUGH THAT A TRIAL AND ERROR APPROACH IS APPLIED TO THE DEVELOPMENT OF NEW PRODUCTS AND PROCESSES RATHER THAN VERIFIED SCIENTIFIC PRINCIPLES CONFECTIONERY AND CHOCOLATE ENGINEERING PRINCIPLES AND APPLICATIONS SECOND EDITION ADDS TO INFORMATION PRESENTED IN THE FIRST EDITION ON ESSENTIAL TOPICS SUCH AS FOOD SAFETY QUALITY ASSURANCE SWEETS FOR SPECIAL NUTRITIONAL PURPOSES ARTIZAN CHOCOLATE AND CONFECTIONERIES IN ADDITION INFORMATION IS PROVIDED ON THE FADING MEMORY OF VISCOELASTIC FLUIDS WHICH ARE BRIFFLY DISCUSSED IN TERMS OF FRACTIONAL CALCULUS AND GELATION AS A SECOND ORDER PHASE TRANSITION CHEMICAL OPERATIONS SUCH AS INVERSION CARAMELIZATION AND THE MAILLARD REACTION AS WELL AS THE COMPLEX OPERATIONS INCLUDING CONCHING DRYING FRYING BAKING AND ROASTING USED IN CONFECTIONERY MANUFACTURE ARE ALSO DESCRIBED THIS BOOK PROVIDES FOOD ENGINEERS SCIENTISTS TECHNOLOGISTS AND STUDENTS IN RESEARCH INDUSTRY AND FOOD AND CHEMICAL ENGINEERING RELATED COURSES WITH A SCIENTIFIC THEORETICAL DESCRIPTION AND ANALYSIS OF CONFECTIONERY MANUFACTURING OPENING UP NEW POSSIBILITIES FOR PROCESS AND PRODUCT IMPROVEMENT RELATING TO INCREASED EFFICIENCY OF OPERATIONS THE USE OF NEW MATERIALS AND NEW APPLICATIONS FOR TRADITIONAL RAW MATERIALS COCOA CHOCOLATE AND ICE CREAM ARE THE PRODUCTS WHICH HAS A GOOD NUTRITIOUS VALUE AND RELATIVELY INEXPENSIVE FOOD COCOA BUTTER IS USED IN CHOCOLATE AND TO COVER OTHER CONFECTIONERY PRODUCTS NOW A DAY CHOCOLATE AND ICE CREAM ARE GAINING GOOD POPULARITY AMONG THE SOCIETY ALL OVER THE WORLD CHOCOLATE IS A KEY INGREDIENT IN MANY FOODS SUCH AS MILK SHAKES CANDY BARS ICE CREAMS ETC IT IS RANKED AS ONE OF THE MOST FAVORITE FLAVORS IN THE WORLD DESPITE ITS POPULARITY MOST PEOPLE DO NOT KNOW THE UNIQUE ORIGINS OF THIS POPULAR TREAT CHOCOLATE IS A PRODUCT THAT REQUIRES COMPLEX PROCEDURES TO PRODUCE THE PROCESS INVOLVES HARVESTING COCA REFINING COCA TO COCOA BEANS AND SHIPPING THE COCOA BEANS TO THE MANUFACTURING FACTORY FOR CLEANING COACHING AND GRINDING THESE COCOA BEANS WILL THEN BE IMPORTED OR EXPORTED TO OTHER COUNTRIES AND BE TRANSFORMED INTO DIFFERENT TYPE OF CHOCOLATE PRODUCTS ICE CREAM IS A FROZEN DESSERT USUALLY MADE FROM DAIRY PRODUCTS SUCH AS MILK AND CREAM AND OFTEN COMBINED WITH FRUITS OR OTHER INGREDIENTS AND FLAVORS THE MEANING OF ICE CREAM VARIES FROM ONE COUNTRY TO ANOTHER LIKE FROZEN CUSTARD FROZEN YOGURT SORBET AND GELATO AND SO ON THE ICE CREAM INDUSTRY HAS TRADITIONALLY GROWN AT A HEALTHY RATE OF 12 PER ANNUM INDIA IS THE SECOND LARGEST MILK PRODUCING COUNTRY MILK PRODUCTS LIKE BUTTER CURD GHEE ETC HAVE BECOME AN ESSENTIAL PART OF OUR FOOD AND ARE CONSUMED IN GOOD QUANTITY EVERY DAY IN SPITE OF THE HUGE DEMAND THAT EXISTS FOR SUCH MILK BASED ITEMS CONVENTIONAL METHODS ARE EMPLOYED FOR PRODUCING THESE ITEMS THE GROWTH IN COCOA CHOCOLATE ICE CREAM AND OTHER MILK PRODUCT INDUSTRY HAS BEEN

PRIMARILY DUE TO STRENGTHENING OF DISTRIBUTION NETWORK AND COLD CHAIN INFRASTRUCTURE SOME OF THE FUNDAMENTALS OF THE BOOK ARE COCOA BEAN PRODUCTION SOURCES OF COCOA BEAN SUPPLIES REFINING FOR PRODUCTION OF CHOCOLATE MASSES FOR DIFFERENT USES SHIPMENT OF COCOA BEANS COCOA PROCESSES COCOA FOR DRINKING INSTANT COCOAS DRINKING CHOCOLATES MANUFACTURING COCOA COCOA BUTTER REPLACEMENT FATS COATINGS AND COCOA CHOCOLATE MANUFACTURE CHOCOLATE BARS AND COVERED CONFECTIONERY CHOCOLATE MOLDING DETERMINATION OF FAT IN COCOA AND CHOCOLATE PRODUCTS DETERMINATION OF COOLING CURVE OF COCOA BUTTER AND SIMILAR FATS THE MANUFACTURE OF DAIRY PRODUCTS ICE CREAM MANUFACTURE ENERGY VALUE AND NUTRIENTS OF ICE CREAM ETC THE PRESENT BOOK CONTAIN FORMULAE PROCESSES AND OTHER RELEVANT DETAILS RELATED TO MANUFACTURE OF COCOA PRODUCTS CHOCOLATES ICE CREAM AND OTHER MILK PRODUCTS AN ATTEMPT HAS BEEN MADE TO BRING IN TO FOCUS THE SIGNIFICANT ASPECT OF COCOA PRODUCTS DAIRY PRODUCTS MANUFACTURING IT IS HOPED THAT THE SUBJECT MATTER CONTAIN AND ITS PRESENTATION WILL BE VERY HELPFUL TO NEW ENTREPRENEURS PROFESSIONALS INSTITUTIONS TECHNOCRATS AND STUDENTS ETC CONFECTIONERY AND CHOCOLATE MANUFACTURE HAS BEEN DOMINATED BY LARGE SCALE INDUSTRIAL PROCESSING FOR SEVERAL DECADES IT IS OFTEN THE CASE THOUGH THAT A TRIAL AND ERROR APPROACH IS APPLIED TO THE DEVELOPMENT OF NEW PRODUCTS AND PROCESSES RATHER THAN VERIFIED SCIENTIFIC PRINCIPLES THE PURPOSE OF THIS BOOK IS TO DESCRIBE THE FEATURES OF UNIT OPERATIONS USED IN CONFECTIONARY MANUFACTURING IN CONTRAST TO THE COMMON TECHNOLOGY FOCUSED APPROACH TO THIS SUBJECT THIS VOLUME OFFERS A SCIENTIFIC THEORETICAL ACCOUNT OF CONFECTIONERY MANUFACTURE BUILDING ON THE SCIENTIFIC BACKGROUND OF CHEMICAL ENGINEERING THE LARGE DIVERSITY OF BOTH RAW MATERIALS AND END PRODUCTS IN THE CONFECTIONERY INDUSTRY MAKES IT BENEFICIAL TO APPROACH THE SUBJECT IN THIS WAY THE INDUSTRY DEALS WITH A VARIETY OF VEGETABLE BASED RAW MATERIALS AS WELL AS MILK PRODUCTS EGGS GELATIN AND OTHER ANIMAL BASED RAW MATERIALS A STUDY OF CONFECTIONERY AND CHOCOLATE ENGINEERING MUST THEREFORE EXAMINE THE PHYSICAL AND CHEMICAL AS WELL AS THE BIOCHEMICAL AND MICROBIOLOGICAL PROPERTIES OF THE PROCESSED MATERIALS BY CHARACTERIZING THE UNIT OPERATIONS OF CONFECTIONERY MANUFACTURE THE AUTHOR WHO HAS OVER 40 YEARS EXPERIENCE IN CONFECTIONERY MANUFACTURE AIMS TO OPEN UP NEW POSSIBILITIES FOR IMPROVEMENT RELATING TO INCREASED EFFICIENCY OF OPERATIONS THE USE OF NEW MATERIALS AND NEW APPLICATIONS FOR TRADITIONAL RAW MATERIALS THE BOOK IS AIMED AT FOOD ENGINEERS SCIENTISTS TECHNOLOGISTS IN RESEARCH AND INDUSTRY AS WELL AS GRADUATE STUDENTS ON RELEVANT FOOD AND CHEMICAL ENGINEERING RELATED COURSES DIGICAT PUBLISHING PRESENTS TO YOU THIS SPECIAL EDITION OF THE MANUFACTURE OF CHOCOLATE AND OTHER CACAO PREPARATIONS BY PAUL ZIPPERER DIGICAT PUBLISHING CONSIDERS EVERY WRITTEN WORD TO BE A LEGACY OF HUMANKIND EVERY DIGICAT BOOK HAS BEEN CAREFULLY REPRODUCED FOR REPUBLISHING IN A NEW MODERN FORMAT THE BOOKS ARE AVAILABLE IN PRINT AS WELL AS EBOOKS DIGICAT HOPES YOU WILL TREAT THIS WORK WITH THE ACKNOWLEDGMENT AND PASSION IT DESERVES AS A CLASSIC OF WORLD LITERATURE SINCE THE PUBLICATION OF THE FIRST EDITION OF INDUSTRIAL CHOCOLATE MANUFACTURE AND USE IN 1988 IT HAS BECOME THE LEADING TECHNICAL BOOK FOR THE INDUSTRY FROM THE BEGINNING IT WAS RECOGNISED THAT THE COMPLEXITY OF THE CHOCOLATE INDUSTRY MEANS THAT NO SINGLE PERSON CAN BE AN EXPERT IN EVERY ASPECT OF IT FOR EXAMPLE THE ACADEMIC VIEW OF A PROCESS SUCH AS CRYSTALLISATION CAN BE VERY DIFFERENT FROM THAT OF A TEMPERING MACHINE OPERATOR SO SOME TOPICS HAVE MORE THAN ONE CHAPTER TO TAKE THIS INTO ACCOUNT IT IS ALSO KNOWN THAT THE BIGGEST SELLING CHOCOLATE IN SAY THE USA TASTES VERY DIFFERENT FROM THAT IN THE UK SO THE AUTHORS IN THE BOOK WERE CHOSEN FROM A WIDE VARIETY OF COUNTRIES MAKING THE BOOK TRULY INTERNATIONAL EACH NEW EDITION IS A MIXTURE OF UPDATES REWRITES AND NEW TOPICS IN THIS BOOK THE NEW SUBJECTS INCLUDE ARTISAN OR CRAFT SCALE PRODUCTION COMPOUND CHOCOLATES AND SENSORY THIS BOOK IS AN ESSENTIAL PURCHASE FOR ALL THOSE INVOLVED IN THE MANUFACTURE USE AND SALE OF CHOCOLATE CONTAINING PRODUCTS ESPECIALLY FOR CONFECTIONERY AND CHOCOLATE SCIENTISTS ENGINEERS AND TECHNOLOGISTS WORKING BOTH IN INDUSTRY AND ACADEMIA THE NEW EDITION ALSO BOASTS TWO NEW CO EDITORS MARK FOWLER AND GREG ZIEGLER BOTH OF WHOM HAVE CONTRIBUTED CHAPTERS TO PREVIOUS EDITIONS OF THE BOOK MARK FOWLER HAS HAD A LONG CAREER AT NESTLE UK WORKING IN COCOA AND CHOCOLATE RESEARCH AND DEVELOPMENT HE IS RETIRING IN 2013 GREG ZIEGLER IS A PROFESSOR IN THE FOOD SCIENCE DEPARTMENT AT PENN STATE UNIVERSITY IN THE USA THIS EARLY WORK ON CHOCOLATE MANUFACTURING IS BOTH EXPENSIVE AND HARD TO FIND IN ITS FIRST EDITION IT DETAILS THE MANY STAGES OF CHOCOLATE PRODUCTION FROM THE COCOA BEAN TO THE SHELF THIS IS A FASCINATING WORK AND IS THOROUGHLY RECOMMENDED FOR ANYONE INTERESTED IN THE CHOCOLATE INDUSTRY MANY OF THE EARLIEST BOOKS PARTICULARLY THOSE DATING BACK TO THE 1900S AND BEFORE ARE NOW EXTREMELY SCARCE WE ARE REPUBLISHING THESE CLASSIC WORKS IN AFFORDABLE HIGH QUALITY MODERN EDITIONS USING THE ORIGINAL TEXT AND ARTWORK IN THIS BOOK UPDATED INFORMATION ON ALL MAJOR ASPECTS OF THE HARVESTING AND CHOCOLATE MANUFACTURE OF VENEZUELAN COCOA ARE COMPILED AND DISCUSSED THE MAIOR QUALITY FACTORS IN CHOCOLATE PROCESSING FROM THE POST HARVEST TO ITS MANUFACTURE ARE STUDIED COVERING. TOPICS SUCH AS COCOA CULTIVATION AND PROCESSING WITH SPECIAL ATTENTION PAID TO BEAN COMPOSITION AND ITS GENOTYPIC VARIATIONS FERMENTATION AND DRYING PROCESSES AND THE CHEMICAL AND BIOCHEMICAL BASIS OF THESE OPERATIONS AND THE PROCEDURES OF CONCHING TEMPERING MOULDING AND ENROBING THE MICROBIOLOGICAL AND PHYSICOCHEMICAL FACTORS THAT AFFECT THE SAFETY AND QUALITY OF CHOCOLATE ARE ALSO COMPILED THE COMPOSITION AND IMPORTANCE OF THE TRIGLYCERIDES THAT MAKE UP COCOA BUTTER AND THE PHYSIO CHEMICAL FACTORS ASSOCIATED WITH THE CRYSTALLISATION AND STABILITY OF THESE FATS IN THE MANUFACTURE OF CHOCOLATE ARE EVALUATED A REVIEW AND DISCUSSION OF THE CONVENTIONAL PERCEPTION AS REGARDS THE TYPES AND COMPOSITION OF CHOCOLATE COMPARING IT TO RECENT REPORTS IN LITERATURE WHICH SCIENTIFICALLY DEMONSTRATE THAT CHOCOLATE CAN BE CONSIDERED AS A FUNCTIONAL FOOD ARE AVAILABLE IN THIS BOOK AN ASSEMBLAGE OF PUBLISHED INFORMATION OF THE DIFFERENT ASPECTS THAT MAKE UP THE SENSORY

QUALITY OF CHOCOLATE BASIC TECHNIQUES OF PHOTOGRAPHY AND STYLING AND ITS APPLICATIONS IN THE CHOCOLATE AS WELL AS THE PARAMETERS INHERENT IN THE COMPOSITION AND PHYSICAL PROPERTIES INVOLVED IN THE FINAL APPEARANCE OF THE CHOCOLATE IS DISCUSSED THE ORGANISATION THE DAY TO DAY RUNNING PRODUCTION AND QUALITY CONTROL OF THE PRODUCTS MADE BY THE VENEZUELAN SOCIALIST ENTERPRISE CACAO ODER? AND THE ACTIVITIES OF THE CHOCOLATE SCHOOL DE LA ALBA ARE SHOWN FINALLY THE PROXIMATE COMPOSITION AND SOME NUTRITIONAL AND FUNCTIONAL PROPERTIES OF COCOA BY PRODUCTS POD HUSKS AND BEAN COATS WERE ANALYSED IN ORDER TO PROPOSE THEM FOR FEED AND FOOD USES CHOCOLATE LAYER CAKE FUDGE BROWNIES CHOCOLATE CHIP COOKIES BOXES OF CHOCOLATE TRUFFLES CUPS OF COCOA HOT FUDGE SUNDAES CHOCOLATE IS SYNONYMOUS WITH OUR CULTURAL SWEET TOOTH OUR RESTAURANT DESSERT MENUS AND OUR IDEA OF INDULGENCE CHOCOLATE IS ADORED AROUND THE WORLD AND HAS BEEN SINCE THE SPANISH FIRST ENCOUNTERED COCOA BEANS IN SOUTH AMERICA IN THE SIXTEENTH CENTURY IT IS SEEN AS MAGICAL ADDICTIVE AND POWERFUL BEYOND ANYTHING THAT CAN BE EXPLAINED BY ITS INGREDIENTS AND IN CHOCOLATE SARAH MOSS AND ALEC BADENOCH EXPLORE THE ORIGINS AND GROWTH OF THIS ALMOST UNIVERSAL OBSESSION MOSS AND BADENOCH RECOUNT THE HISTORY OF CHOCOLATE WHICH FROM ANCIENT TIMES HAS BEEN ASSOCIATED WITH SEXUALITY SIN BLOOD AND SACRIFICE THE FIRST SPANISH ACCOUNTS CLAIM THAT THE AZTECS AND MAYANS USED CHOCOLATE AS A SUBSTITUTE FOR BLOOD IN SACRIFICIAL RITUALS AND AS A CURRENCY TO REPLACE GOLD IN THE EIGHTEENTH CENTURY CHOCOLATE BECAME REGARDED AS AN APHRODISIAC THE FIRST STEP ON THE ROAD TO TODAY S BOXES OF VALENTINE DELIGHTS CHOCOLATE ALSO LOOKS AT TODAY S MASS PRODUCTION OF CHOCOLATE WITH BRANDS SUCH AS HERSHEY S LINDT AND CADBURY DOMINATING OUR SUPERMARKET SHELVES PACKED WITH TEMPTING IMAGES AND DECADENT DESCRIPTIONS OF CHOCOLATE THROUGHOUT THE AGES CHOCOLATE WILL BE AS IRRESISTIBLE AS THE TASTY TREATS IT DESCRIBES ENROBED AND FILLED CONFECTIONERY AND BAKERY PRODUCTS SUCH AS PRALINE STYLE CHOCOLATES CONFECTIONERY BARS AND CHOCOLATE COATED BISCUITS AND ICE CREAMS ARE POPULAR WITH CONSUMERS THE COATING AND FILLING CAN NEGATIVELY AFFECT PRODUCT QUALITY AND SHELF LIFE BUT WITH THE CORRECT PRODUCT DESIGN AND MANUFACTURING TECHNOLOGY THE CHARACTERISTICS OF THE END PRODUCT CAN BE MUCH IMPROVED THIS BOOK PROVIDES A COMPREHENSIVE OVERVIEW OF QUALITY ISSUES AFFECTING ENROBED AND FILLED PRODUCTS AND STRATEGIES TO ENHANCE PRODUCT QUALITY PART ONE REVIEWS THE FORMULATION OF COATINGS AND FILLINGS WITH CHAPTERS ON KEY TOPICS SUCH AS CHOCOLATE MANUFACTURE CONFECTIONERY FATS COMPOUND COATINGS AND FAT AND SUGAR BASED FILLINGS PRODUCT DESIGN ISSUES SUCH AS OIL MOISTURE AND ETHANOL MIGRATION AND CHOCOLATE AND FILLING RHEOLOGY ARE THE FOCUS OF PART TWO SHELF LIFE PREDICTION AND TESTING ARE ALSO DISCUSSED PART THREE THEN COVERS THE LATEST INGREDIENT PREPARATION AND MANUFACTURING TECHNOLOGY FOR OPTIMUM PRODUCT QUALITY CHAPTERS EXAMINE TEMPERING ENROBING CHOCOLATE PANNING PRODUCTION OF CHOCOLATE SHELLS AND DEPOSITION TECHNOLOGY WITH ITS EXPERIENCED TEAM OF AUTHORS SCIENCE AND TECHNOLOGY OF ENROBED AND FILLED CHOCOLATE CONFECTIONERY AND BAKERY PRODUCTS IS AN ESSENTIAL PURCHASE FOR PROFESSIONALS IN THE CHOCOLATE CONFECTIONERY AND BAKERY INDUSTRIES PROVIDES A COMPREHENSIVE REVIEW OF QUALITY ISSUES AFFECTING ENROBED AND FILLED PRODUCTS REVIEWS THE FORMULATION OF COATINGS AND FILLINGS ADDRESSING CONFECTIONERY FATS COMPOUND COATINGS AND SUGAR BASED FILLINGS FOCUSES ON PRODUCT DESIGN ISSUES SUCH AS OIL MOISTURE AND CHOCOLATE FILLING RHEOLOGY COCOA AND CHOCOLATE 1765 1914 FOCUSES ON THE PERIOD FROM THE SEVEN YEARS WAR TO THE FIRST WORLD WAR WHEN A SURGE OF ECONOMIC LIBERALISM AND GLOBALISATION SHOULD HAVE HELPED COCOA PRODUCERS TO OVERCOME RURAL POVERTY JUST AS WOOL TRANSFORMED THE ECONOMY OF AUSTRALIA AND TEA THAT OF JAPAN THE ADDITION OF NEW FORMS OF CHOCOLATE TO WESTERN DIETS IN THE LATE NINETEENTH CENTURY LED TO A GREAT COCOA BOOM AND YET ECONOMIC DEVELOPMENT REMAINED ELUSIVE DESPITE COCOA PRODUCERS HAVING CERTAIN ADVANTAGES IN THE COMMODITY LOTTERY FACED BY EXPORTERS OF RAW MATERIALS THE COMMODITY CHAIN FROM SOWING A COCOA BEAN TO ENIOYING A CUP OF HOT CHOCOLATE IS EXAMINED IN COCOA AND CHOCOLATE 1765 1914 UNDER THE BROAD RUBRICS OF CHOCOLATE CONSUMPTION THE TAXATION OF COCOA BEANS THE MANUFACTURE OF CHOCOLATE PRIVATE MARKETING CHANNELS LAND DISTRIBUTION ECOLOGICAL IMPACT ON TROPICAL FORESTS AND THE COERCION OF LABOUR COCOA AND CHOCOLATE 1765 1914 CONCLUDES THAT COCOA FAILED TO ACT AS A DYNAMO FOR DEVELOPMENT THIS WORK HAS BEEN SELECTED BY SCHOLARS AS BEING CULTURALLY IMPORTANT AND IS PART OF THE KNOWLEDGE BASE OF CIVILIZATION AS WE KNOW IT THIS WORK IS IN THE PUBLIC DOMAIN IN THE UNITED STATES OF AMERICA AND POSSIBLY OTHER NATIONS WITHIN THE UNITED STATES YOU MAY FREELY COPY AND DISTRIBUTE THIS WORK AS NO ENTITY INDIVIDUAL OR CORPORATE HAS A COPYRIGHT ON THE BODY OF THE WORK SCHOLARS BELIEVE AND WE CONCUR THAT THIS WORK IS IMPORTANT ENOUGH TO BE PRESERVED REPRODUCED AND MADE GENERALLY AVAILABLE TO THE PUBLIC TO ENSURE A QUALITY READING EXPERIENCE THIS WORK HAS BEEN PROOFREAD AND REPUBLISHED USING A FORMAT THAT SEAMLESSLY BLENDS THE ORIGINAL GRAPHICAL ELEMENTS WITH TEXT IN AN EASY TO READ TYPEFACE WE APPRECIATE YOUR SUPPORT OF THE PRESERVATION PROCESS AND THANK YOU FOR BEING AN IMPORTANT PART OF KEEPING THIS KNOWLEDGE ALIVE AND RELEVANT THIS IS A REPRODUCTION OF A BOOK PUBLISHED BEFORE 1923 THIS BOOK MAY HAVE OCCASIONAL IMPERFECTIONS SUCH AS MISSING OR BLURRED PAGES POOR PICTURES ERRANT MARKS ETC THAT WERE EITHER PART OF THE ORIGINAL ARTIFACT OR WERE INTRODUCED BY THE SCANNING PROCESS WE BELIEVE THIS WORK IS CULTURALLY IMPORTANT AND DESPITE THE IMPERFECTIONS HAVE ELECTED TO BRING IT BACK INTO PRINT AS PART OF OUR CONTINUING COMMITMENT TO THE PRESERVATION OF PRINTED WORKS WORLDWIDE WE APPRECIATE YOUR UNDERSTANDING OF THE IMPERFECTIONS IN THE PRESERVATION PROCESS AND HOPE YOU ENIOY THIS VALUABLE BOOK ONE OF THE LARGEST FOOD COMMODITIES EXPORTED FROM THE DEVELOPING COUNTRIES TO THE REST OF THE WORLD COCOA HAS GAINED INCREASING ATTENTION ON THE GLOBAL MARKET RAISING MANY QUESTIONS ABOUT ITS QUALITY SUSTAINABILITY AND TRACEABILITY COCOA PRODUCTION AND PROCESSING TECHNOLOGY PRESENTS DETAILED EXPLANATIONS OF THE TECHNOLOGIES THAT COULD BE EMPLOYED TO ASSURE SUSTAINABLE PRODUCTION OF HIGH QUALITY AND SAFE COCOA BEANS FOR THE GLOBAL

CONFECTIONARY INDUSTRY IT PROVIDES OVERVIEWS OF UP TO DATE TECHNOLOGIES AND APPROACHES TO MODERN COCOA PRODUCTION PRACTICES GLOBAL PRODUCTION AND CONSUMPTION TRENDS AS WELL AS PRINCIPLES OF COCOA PROCESSING AND CHOCOLATE MANUFACTURE THE BOOK COVERS THE ORIGIN HISTORY AND TAXONOMY OF COCOA AND EXAMINES THE FAIRTRADE AND ORGANIC COCOA INDUSTRIES AND THEIR INFLUENCE ON SMALLHOLDER FARMERS THE CHAPTERS PROVIDE IN DEPTH COVERAGE OF COCOA CULTIVATION HARVESTING AND POST HARVEST TREATMENTS WITH A FOCUS ON COCOA BEAN COMPOSITION GENOTYPIC VARIATIONS AND THEIR INFLUENCE ON QUALITY POST HARVEST PRE TREATMENTS FERMENTATION TECHNIQUES DRYING STORAGE AND TRANSPORTATION THE AUTHOR PROVIDES DETAILS ON COCOA FERMENTATION PROCESSES AS WELL AS THE BIOCHEMICAL AND MICROBIOLOGICAL CHANGES INVOLVED AND HOW THEY INFLUENCE FLAVOUR HE ALSO ADDRESSES COCOA TRADING SYSTEMS BEAN SELECTION AND QUALITY CRITERIA AS WELL AS INDUSTRIAL PROCESSING OF FERMENTED AND DRIED COCOA BEANS INTO LIQUOR CAKE BUTTER AND POWDER THE BOOK EXAMINES THE GENERAL PRINCIPLES OF CHOCOLATE MANUFACTURE DETAILING THE VARIOUS STAGES OF THE PROCESSES INVOLVED THE FACTORS THAT INFLUENCE THE QUALITY CHARACTERISTICS AND STRATEGIES TO AVOID POST PROCESSING QUALITY DEFECTS THIS VOLUME PRESENTS INNOVATIVE TECHNIQUES FOR SUSTAINABILITY AND TRACEABILITY IN HIGH QUALITY COCOA PRODUCTION AND EXPLORES NEW PRODUCT DEVELOPMENT WITH POTENTIAL FOR COST REDUCTION AS WELL AS IMPROVED COCOA BEAN AND CHOCOLATE PRODUCT QUALITY EXCERPT FROM COCOA AND CHOCOLATE THEIR CHEMISTRY AN MANUFACTURE FOR THE FIRST TIME THE CHEMICAL COMPOSITION OF CACAO HAS BEEN TRACED FROM THE FRESH BEANS THROUGH THE VARIOUS STAGES OF MANUFACTURE SO THAT THE CHANGES WHICH OCCUR DURING FERMENTATION DRYING ROASTING ETC MAY BE FOLLOWED THE MOST RECENT METHODS OF ANALYSIS HAVE BEEN DIS CUSSED AND THE AUTHOR HAS ONLY RECOMMENDED THOSE WHICH HE HIMSELF HAS FOUND TO GIVE ACCURATE AND CONSISTENT RESULTS ABOUT THE PUBLISHER FORGOTTEN BOOKS PUBLISHES HUNDREDS OF THOUSANDS OF RARE AND CLASSIC BOOKS FIND MORE AT FORGOTTENBOOKS COM THIS BOOK IS A REPRODUCTION OF AN IMPORTANT HISTORICAL WORK FORGOTTEN BOOKS USES STATE OF THE ART TECHNOLOGY TO DIGITALLY RECONSTRUCT THE WORK PRESERVING THE ORIGINAL FORMAT WHILST REPAIRING IMPERFECTIONS PRESENT IN THE AGED COPY IN RARE CASES AN IMPERFECTION IN THE ORIGINAL SUCH AS A BLEMISH OR MISSING PAGE MAY BE REPLICATED IN OUR EDITION WE DO HOWEVER REPAIR THE VAST MAIORITY OF IMPERFECTIONS SUCCESSFULLY ANY IMPERFECTIONS THAT REMAIN ARE INTENTIONALLY LEFT TO PRESERVE THE STATE OF SUCH HISTORICAL WORKS IN THIS BOOK UPDATED INFORMATION ON ALL MAJOR ASPECTS OF THE HARVESTING AND CHOCOLATE MANUFACTURE OF VENEZUELAN COCOA ARE COMPILED AND DISCUSSED THE MAJOR QUALITY FACTORS IN CHOCOLATE PROCESSING FROM THE POST HARVEST TO ITS MANUFACTURE ARE STUDIED COVERING TOPICS SUCH AS COCOA CULTIVATION AND PROCESSING WITH SPECIAL ATTENTION PAID TO BEAN COMPOSITION AND ITS GENOTYPIC VARIATIONS FERMENTATION AND DRYING PROCESSES AND THE CHEMICAL AND BIOCHEMICAL BASIS OF THESE OPERATIONS AND THE PROCEDURES OF CONCHING TEMPERING MOLDING AND ENROBING THE MICROBIOLOGICAL AND PHYSICOCHEMICAL FACTORS THAT AFFECT THE SAFETY AND QUALITY OF CHOCOLATE ARE ALSO COMPILED THE COMPOSITION AND IMPORTANCE OF THE TRIGLYCERIDES THAT MAKE UP COCOA BUTTER AND THE PHYSICO CHEMICAL FACTORS ASSOCIATED WITH THE CRYSTALLIZATION AND STABILITY OF THESE FATS IN THE MANUFACTURE OF CHOCOLATE ARE EVALUATED A REVIEW AND DISCUSSION OF THE CONVENTIONAL PERCEPTION AS REGARDS THE TYPES AND COMPOSITION OF CHOCOLATE COMPARING IT TO RECENT REPORTS IN LITERATURE WHICH SCIENTIFICALLY DEMONSTRATE THAT CHOCOLATE CAN BE CONSIDERED AS A FUNCTIONAL FOOD ARE AVAILABLE IN THIS BOOK AN ASSEMBLAGE OF PUBLISHED INFORMATION OF THE DIFFERENT ASPECTS THAT MAKE UP THE SENSORY QUALITY OF CHOCOLATE BASIC TECHNIQUES OF PHOTOGRAPHY AND STYLING AND ITS APPLICATIONS IN THE CHOCOLATE AS WELL AS THE PARAMETERS INHERENT IN THE COMPOSITION AND PHYSICAL PROPERTIES INVOLVED IN THE FINAL APPEARANCE OF THE CHOCOLATE IS DISCUSSED THE ORGANIZATION THE DAY TO DAY RUNNING PRODUCTION AND QUALITY CONTROL OF THE PRODUCTS MADE BY THE VENEZUELAN SOCIALIST ENTERPRISE CACAO ODER? AND THE ACTIVITIES OF THE CHOCOLATE SCHOOL DE LA ALBA ARE SHOWN FINALLY THE PROXIMATE COMPOSITION AND SOME NUTRITIONAL AND FUNCTIONAL PROPERTIES OF COCOA BY PRODUCTS POD HUSKS AND BEAN COATS WERE ANALYZED IN ORDER TO PROPOSE THEM FOR FEED AND FOOD USES THIS WORK HAS BEEN SELECTED BY SCHOLARS AS BEING CULTURALLY IMPORTANT AND IS PART OF THE KNOWLEDGE BASE OF CIVILIZATION AS WE KNOW IT THIS WORK IS IN THE PUBLIC DOMAIN IN THE UNITED STATES OF AMERICA AND POSSIBLY OTHER NATIONS WITHIN THE UNITED STATES YOU MAY FREELY COPY AND DISTRIBUTE THIS WORK AS NO ENTITY INDIVIDUAL OR CORPORATE HAS A COPYRIGHT ON THE BODY OF THE WORK SCHOLARS BELIEVE AND WE CONCUR THAT THIS WORK IS IMPORTANT ENOUGH TO BE PRESERVED REPRODUCED AND MADE GENERALLY AVAILABLE TO THE PUBLIC TO ENSURE A QUALITY READING EXPERIENCE THIS WORK HAS BEEN PROOFREAD AND REPUBLISHED USING A FORMAT THAT SEAMLESSLY BLENDS THE ORIGINAL GRAPHICAL ELEMENTS WITH TEXT IN AN EASY TO READ TYPEFACE WE APPRECIATE YOUR SUPPORT OF THE PRESERVATION PROCESS AND THANK YOU FOR BEING AN IMPORTANT PART OF KEEPING THIS KNOWLEDGE ALIVE AND RELEVANT IT IS NOW A DECADE SINCE THE APPEARANCE OF THE LAST EDITION AND OWING TO CONTINUAL DELAYS IN THE COMPILING OF THE PRESENT VOLUME THE BOOK HAS BEEN OUT OF PRINT FOR SEVERAL YEARS THESE DELAYS ENSUED BECAUSE THE EDITOR WISHED TO TAKE INTO ACCOUNT THE MOST RECENT DETERMINATIONS AND DECREES OF THE GUILDS AND VARIOUS LEGISLATIVE FACTORS CONNECTED WITH THE INDUSTRY BUT HE WAS AT LENGTH FORCED TO THE CONCLUSION THAT NOTWITHSTANDING THE EXCELLENT ORGANISATION AND LOFTY STANDING OF THE BRANCH UNDER CONSIDERATION IT WAS USELESS TO WAIT FOR ANYTHING FINAL AND ABSOLUTE IN SUCH A FIELD SUGGESTIONS OF POSSIBLE IMPROVEMENTS AND INDICATIONS OF BLEMISHES ARE THEREFORE EARNESTLY INVITED IN ORDER THAT THEY MAY BE DULY ALLOWED FOR IN THE EVENT OF A NEW EDITION THE PLAN FOLLOWED BY ZIPPERER HAS BEEN ADOPTED IN THE MAIN A TRIBUTE DUE TO ITS PREVIOUS SUCCESS YET ON THE OTHER HAND THE ARRANGEMENT OF THE BOOK HAS UNDERGONE SOME ALTERATION AND IS AT LEAST IN THE EDITOR S OPINION A PERCEPTIBLE IMPROVEMENT ALL SCIENTIFIC INDUSTRIAL AND TECHNICAL PROGRESS HAS BEEN TREATED AS FULLY AS POSSIBLE THE ECONOMIC PART IN PARTICULAR HAVING BEEN DILIGENTLY RECAST IT WOULD OF COURSE

HAVE BEEN IMPOSSIBLE FOR THE EDITOR TO WRITE ALL THESE CHAPTERS WITHOUT EXTERNAL AID HIS KNOWLEDGE OF THE RESPECTIVE BRANCHES BEING BY NO MEANS EXHAUSTIVE ENOUGH HE MAY THEREFORE BE ALLOWED TO EXPRESS HERE HIS OBLIGATION AND THANKS TO ALL HIS FELLOW WORKERS AND IN PARTICULAR TO THE ASSOCIATION OF GERMAN CHOCOLATE MANUFACTURERS DRESDEN ITS MANAGING DIRECTOR HERR GREIERT THE DIRECTOR OF THE COCOA PURCHASE CO HAMBURG HERR RITTSCHER WHO CONTRIBUTED THE WHOLE OF THE CHAPTER HEADED COMMERCIAL VARIETIES OF CACAO BEANS FURTHER TO PROF DR H RTEL CHIEF INSPECTOR OF THE ROYAL RESEARCH INSTITUTE LEIPSIC DR R B HME MANAGING DIRECTOR OF MESSRS STOLL WERCK BROS CHEMICAL LABORATORY COLOGNE AND TO SUPERINTENDENT ENGINEER SCHNEIDER OF THE FIRM I M LEHMAN DRESDEN AMONG MANY OTHERS MENTION MUST ALSO BE MADE OF THE MANUFACTURERS WHO SO KINDLY PLACED MATERIAL AT THE EDITOR S DISPOSAL LET US HOPE THAT THE WORK WILL MEET WITH A SUCCESS CORRESPONDING TO THE PAINS TAKEN BY THE EDITOR AND PUBLISHERS AND PROVE A REALLY SERVICEABLE HANDBOOK TO THE CHOCOLATE INDUSTRY THE OBJECT OF THIS WORK IS TO FURNISH A SOURCE OF INFORMATION AND ADVICE FOR THOSE WHO ARE INTERESTED IN THE BRANCH OF INDUSTRY TO WHICH IT RELATES THE AUTHOR OF THIS TREATISE HAS THEREFORE ENDEAVOURED NOT ONLY TO DESCRIBE THE MANUFACTURING PROCESSES BUT HE HAS ALSO DEVOTED SPECIAL ATTENTION TO THE RAW MATERIALS EMPLOYED AND ENDEAVOURED TO MAKE THEM GENERALLY FAMILIAR BY REFERENCE TO THE LITERATURE ON THE SUBJECT AS WELL AS BY PROVIDING A PRECISE ACCOUNT OF THE CHEMICAL CONSTITUENTS OF THESE SUBSTANCES AND DISCUSSING THE CONSEQUENTLY NECESSARY PROCEDURE TO BE OBSERVED IN THE COURSE OF MANUFACTURE THE ART OF CHOCOLATE MAKING IS NO LONGER WHAT IT WAS A FEW DECADES AGO IT HAS FOR THE MOST PART PASSED FROM SMALL OPERATORS INTO THE HANDS OF LARGE MANUFACTURERS A SHORT HISTORICAL RESUM WILL SERVE AS A SKETCH OF THIS DEVELOPMENT AND A CURSORY DESCRIPTION OF SOME FORMS OF APPARATUS WHICH HAVE NOW MERELY HISTORICAL INTEREST WILL SERVE TO SHOW HOW IMPROVEMENT IN THE INDUSTRY HAS BEEN EFFECTED COCOA AND CHOCOLATE THEIR HISTORY FROM PLANTATION TO CONSUMER THE INDUSTRY WITH WHICH THIS BOOK DEALS IS CHANGING SLOWLY FROM AN ART TO A SCIENCE IT IS IN A TRANSITION PERIOD IT IS ONE OF THE HUMOURS OF ANY LIVE INDUSTRY THAT IT IS ALWAYS IN A TRANSITION PERIOD THERE ARE MANY INDICATIONS OF SCIENTIFIC PROGRESS IN CACAO CULTIVATION AND NOW THAT IN ADDITION TO THE EXPERIMENTAL AND RESEARCH DEPARTMENTS ATTACHED TO THE PRINCIPAL FIRMS A RESEARCH ASSOCIATION HAS BEEN FORMED FOR THE COCOA AND CHOCOLATE INDUSTRY THE INCREASED AMOUNT OF DIFFUSED SCIENTIFIC KNOWLEDGE OF COCOA AND CHOCOLATE MANUFACTURE SHOULD GIVE RISE TO INTERESTING DEVELOPMENTS ALTHOUGH THERE ARE SEVERAL EXCELLENT SCIENTIFIC WORKS DEALING IN A DETAILED MANNER WITH THE CACAO BEAN AND ITS PRODUCTS FROM THE VARIOUS VIEW POINTS OF THE TECHNICIAN THERE IS NO COMPREHENSIVE MODERN WORK WRITTEN FOR THE GENERAL READER UNTIL THAT APPEARS I OFFER THIS LITTLE BOOK WHICH ATTEMPTS TO COVER LIGHTLY BUT ACCURATELY THE WHOLE GROUND INCLUDING THE HISTORY OF CACAO ITS CULTIVATION AND MANUFACTURE THIS IS A SMALL BOOK IN WHICH TO TREAT OF SO LARGE A SUBJECT AND TO AVOID PROLIXITY I HAVE HAD TO GENERALISE THIS IS A DANGEROUS PRACTICE FOR WHAT IS GAINED IN BREVITY IS TOO OFTEN LOST IN ACCURACY BREVITY MAY BE ALWAYS THE SOUL OF WIT IT IS RARELY THE BODY OF TRUTH THE EXPERT WILL FIND THAT I HAVE CONSIDERED HIM IN THAT I HAVE GIVEN ATTENTION TO RECENT DEVELOPMENTS AND IF I HAVE TALKED OF THE METHODS PECULIAR TO ONE PLACE AS THOUGH THEY APPLIED TO THE WHOLE WORLD I ASK HIM TO CONSIDER ME BY SUPPLYING THE INEVITABLE VARIATIONS AND EXCEPTIONS HIMSELF CHOCOLATE IS CONSUMED BY PEOPLE OF ALL AGES IN ALL SEGMENTS OF SOCIETY THROUGHOUT THE WORLD HOWEVER RECENT CHANGES IN LEGISLATIVE FRAMEWORKS ENVIRONMENTAL CONCERNS AND INCREASING ATTENTION TOWARDS SUSTAINABILITY HAVE STIMULATED THE CHOCOLATE INDUSTRY TO RECONSIDER THEIR MANAGEMENT POLICY CURRENT BOOKS IN THE MARKET COVER CHOCOLATE MANUFACTURE WITHOUT TAKING INTO ACCOUNT SUSTAINABLE PRACTICES OF PRODUCTION CONSUMPTION AND MARKET ASPECTS TRENDS IN SUSTAINABLE CHOCOLATE PRODUCTION FILLS THIS KNOWLEDGE GAP BY COVERING ALL THE IMPORTANT ASPECTS OF CHOCOLATE INDUSTRY MANUFACTURE FUNCTIONALITY SUSTAINABILITY OF THE SUPPLY CHAIN COMMERCIALIZATION ASPECTS AND MARKET CHARACTERISTICS IN ONE REFERENCE STARTING WITH THE HEALTH OUTCOMES OF CHOCOLATE AND AN OVERVIEW OF ITS MANUFACTURE THE BOOK EXPLORES TECHNIQUES TO IMPROVE THE FUNCTIONALITY FLAVOR AND MICROSTRUCTURE OF CHOCOLATE AS WELL AS ITS ENVIRONMENTAL IMPACT THROUGH SUSTAINABLE PRACTICES AND SUPPLY CHAINS BY CONNECTING RESEARCH TO INDUSTRY AND CONSUMER INTERESTS THIS TEXT AIMS TO SUPPORT MEMBERS OF THE SCIENTIFIC COMMUNITY PROFESSIONALS AND ENTERPRISES WORKING TO DEVELOP A SUSTAINABLE CHOCOLATE SECTOR KIT KAT TURKISH DELIGHT CREME EGG ROLO AND ALL GOLD THEY ARE ALL AS MUCH A PART OF BRITISH LIFE AS WERE THE COMPANIES THAT MADE THEM AND WHICH LED THE CHOCOLATE REVOLUTION IN THE NINETEENTH CENTURY ROWNTREE S FRY S CADBURY S MACKINTOSH AND TERRY S THIS BOOK CHARTS THE HISTORY OF CHOCOLATE MANUFACTURE MARKETING AND CONSUMPTION IN BRITAIN FROM ITS ORIGINS IN THE EIGHTEENTH CENTURY IT THEN DESCRIBES THE GOLDEN AGE FROM 1900 TO THE 1970S AND THE SUBSEQUENT US AND SWISS INVASIONS SPEARHEADED BY BRANDS SUCH AS MARS TOBLERONE AND NESTL? S MILKY BAR INCLUDING THE TAKEOVERS BY NESTLE AND KRAFT FOOD SAFETY MANAGEMENT IN COCOA AND CHOCOLATE FOCUSES MAINLY ON INCOMING HAZARDS AND THEIR CONTROLS AT DIFFERENT STAGES OF PROCESSING AS WELL AS PREVENTION OF RECONTAMINATION DURING FURTHER PROCESSING DUE TO THE NATURE OF THE PRODUCTS LOW MOISTURE HIGH FAT SOME SPECIFICS NEED TO BE TAKEN INTO ACCOUNT IN ORDER TO ENSURE EFFICIENT AND SUCCESSFUL FOOD SAFETY MANAGEMENT THE RISKS ASSOCIATED WITH THESE PRODUCTS HAD BEEN RECOGNIZED BY EUROPEAN INDUSTRY ORGANIZATIONS FOR CHOCOLATE CONFECTIONERY AND BISCUITS IN THE 1990S THE IOCCC PUBLISHED TWO CODES OF PRACTICE ONE BASED ON THE HACCP AND ONE FOR SPECIFIC GMPS FOR THE COCOA CHOCOLATE AND CONFECTIONERY INDUSTRY CAOBISCO BROCHURES AVAILABLE FROM CAOBISCO ASSOCIATION OF CHOCOLATE BISCUIT AND CONFECTIONERY INDUSTRY OF THE EU ACCESSED 02 06 11 THE MICROBIOLOGICAL SAFETY OF CHOCOLATE PRODUCTS CAN BE ENSURED BY CONSEQUENT APPLICATION OF THE HACCP CONCEPT AND ADHERENCE TO PREREQUISITE PROGRAMS TO ENSURE GOOD MANUFACTURING AND AGRICULTURAL PRACTICES THROUGHOUT THE WHOLE PROCESSING CHAIN THIS INCLUDES NOT

only the final processing steps of making chocolate but starts at the level and sourcing of RAW agricultural materials used in chocolate making like cocoa and nuts microbial data can play an important role in the verification of implemented controls but their validity and limitations need to be understood kvenberg j e schwalm d j 2000 use of microbial data for hazard analysis and critical control point verification food and drug administration perspective j food prot 63 6 810 814 swanson k m j anderson j e 2000 industry perspective on the use of microbial data for hazard analysis and critical control point validation and verification j food prot 63 6 815 818 kornackijl 2006 microbiological sampling in the dry foods processing environment food safety mag pp 66

INDUSTRIAL CHOCOLATE MANUFACTURE AND USE

2011-09-07

SINCE THE THIRD EDITION OF THIS STANDARD WORK IN 1999 THERE HAS BEEN A SIGNIFICANT INCREASE IN THE AMOUNT OF CHOCOLATE MANUFACTURED WORLDWIDE THE FOURTH EDITION OF INDUSTRIAL CHOCOLATE MANUFACTURE AND USE PROVIDES UP TO DATE COVERAGE OF ALL MAJOR ASPECTS OF CHOCOLATE MANUFACTURE AND USE FROM THE GROWING OF COCOA BEANS TO THE PACKAGING AND MARKETING OF THE END PRODUCT RETAINING THE IMPORTANT AND WELL RECEIVED KEY FEATURES OF THE PREVIOUS EDITION THE FOURTH EDITION ALSO CONTAINS COMPLETELY NEW CHAPTERS COVERING CHOCOLATE CRUMB COLD FORMING TECHNOLOGIES INTELLECTUAL PROPERTY AND NUTRITION FURTHERMORE TAKING ACCOUNT OF SIGNIFICANT CHANGES AND TRENDS WITHIN THE CHOCOLATE INDUSTRY MUCH NEW INFORMATION IS INCORPORATED PARTICULARLY WITHIN SUCH CHAPTERS AS THOSE COVERING THE CHEMISTRY OF FLAVOUR DEVELOPMENT CHOCOLATE FLOW PROPERTIES CHOCOLATE PACKAGING AND CHOCOLATE MARKETING THIS FULLY REVISED AND EXPANDED NEW EDITION IS AN ESSENTIAL PURCHASE FOR ALL THOSE INVOLVED IN THE MANUFACTURE AND USE OF CHOCOLATE

BECKETT'S INDUSTRIAL CHOCOLATE MANUFACTURE AND USE

2017-05-08

SINCE THE PUBLICATION OF THE FIRST EDITION OF INDUSTRIAL CHOCOLATE MANUFACTURE AND USE IN 1988 IT HAS BECOME THE LEADING TECHNICAL BOOK FOR THE INDUSTRY FROM THE BEGINNING IT WAS RECOGNISED THAT THE COMPLEXITY OF THE CHOCOLATE INDUSTRY MEANS THAT NO SINGLE PERSON CAN BE AN EXPERT IN EVERY ASPECT OF IT FOR EXAMPLE THE ACADEMIC VIEW OF A PROCESS SUCH AS CRYSTALLISATION CAN BE VERY DIFFERENT FROM THAT OF A TEMPERING MACHINE OPERATOR SO SOME TOPICS HAVE MORE THAN ONE CHAPTER TO TAKE THIS INTO ACCOUNT IT IS ALSO KNOWN THAT THE BIGGEST SELLING CHOCOLATE IN SAY THE USA TASTES VERY DIFFERENT FROM THAT IN THE UK SO THE AUTHORS IN THE BOOK WERE CHOSEN FROM A WIDE VARIETY OF COUNTRIES MAKING THE BOOK TRULY INTERNATIONAL EACH NEW EDITION IS A MIXTURE OF UPDATES REWRITES AND NEW TOPICS IN THIS BOOK THE NEW SUBJECTS INCLUDE ARTISAN OR CRAFT SCALE PRODUCTION COMPOUND CHOCOLATES AND SENSORY THIS BOOK IS AN ESSENTIAL PURCHASE FOR ALL THOSE INVOLVED IN THE MANUFACTURE USE AND SALE OF CHOCOLATE CONTAINING PRODUCTS ESPECIALLY FOR CONFECTIONERY AND CHOCOLATE SCIENTISTS ENGINEERS AND TECHNOLOGISTS WORKING BOTH IN INDUSTRY AND ACADEMIA THE NEW EDITION ALSO BOASTS TWO NEW CO EDITORS MARK FOWLER AND GREG ZIEGLER BOTH OF WHOM HAVE CONTRIBUTED CHAPTERS TO PREVIOUS EDITIONS OF THE BOOK MARK FOWLER HAS HAD A LONG CAREER AT NESTLE UK WORKING IN COCOA AND CHOCOLATE RESEARCH AND DEVELOPMENT HE IS RETIRING IN 2013 GREG ZIEGLER IS A PROFESSOR IN THE FOOD SCIENCE DEPARTMENT AT PENN STATE UNIVERSITY IN THE USA

INDUSTRIAL CHOCOLATE MANUFACTURE AND USE

1995-12-31

THIS SECOND EDITION PROVIDES INFORMATION ON RECENT ADVANCES IN THE SCIENCE AND TECHNOLOGY OF CHOCOLATE MANUFACTURE AND THE ENTIRE INTERNATIONAL COCOA INDUSTRY IT PROVIDES DETAILED REVIEW ON A WIDE RANGE OF TOPICS INCLUDING COCOA PRODUCTION COCOA AND CHOCOLATE MANUFACTURING OPERATIONS SENSORY PERCEPTION OF CHOCOLATE QUALITY FLAVOUR RELEASE AND PERCEPTION SUGAR REPLACEMENT AND ALTERNATIVE SWEETENING SOLUTIONS IN CHOCOLATE PRODUCTION INDUSTRIAL MANUFACTURE OF SUGAR FREE CHOCOLATES AS WELL AS THE NUTRITION AND HEALTH BENEFITS OF COCOA AND CHOCOLATE CONSUMPTION THE TOPICS COVER MODERN COCOA CULTIVATION AND PRODUCTION PRACTICES WITH SPECIAL ATTENTION ON COCOA BEAN COMPOSITION GENOTYPIC VARIATIONS IN THE BEAN POST HARVEST PRE TREATMENTS FERMENTATION AND DRYING PROCESSES AND THE BIOCHEMICAL BASIS OF THESE OPERATIONS THE SCIENTIFIC PRINCIPLES BEHIND INDUSTRIAL CHOCOLATE MANUFACTURE ARE OUTLINED WITH DETAILED EXPLANATIONS OF THE VARIOUS STAGES OF CHOCOLATE MANUFACTURING INCLUDING MIXING REFINING CONCHING AND TEMPERING OTHER TOPICS COVERED INCLUDE THE CHEMISTRY OF FLAVOUR FORMATION AND DEVELOPMENT DURING COCOA PROCESSING AND CHOCOLATE MANUFACTURE VOLATILE FLAVOUR COMPOUNDS AND THEIR CHARACTERISTICS AND IDENTIFICATION SENSORY DESCRIPTIONS AND CHARACTER AND FLAVOUR RELEASE AND PERCEPTION IN CHOCOLATE THE NUTRITIONAL AND HEALTH BENEFITS OF COCOA AND CHOCOLATE CONSUMPTION AS WELL AS THE APPLICATION OF HACCP AND OTHER FOOD SAFETY MANAGEMENT SYSTEMS SUCH AS ISO 22 000 IN THE CHOCOLATE PROCESSING INDUSTRY ARE ALSO ADDRESSED ADDITIONALLY DETAILED RESEARCH ON THE INFLUENCE OF DIFFERENT RAW MATERIALS AND PROCESSING OPERATIONS ON THE FLAVOUR AND OTHER QUALITY CHARACTERISTICS OF CHOCOLATES HAVE BEEN PROVIDED WITH SCOPE FOR PROCESS OPTIMIZATION AND IMPROVEMENT THE BOOK IS INTENDED TO BE A DESK REFERENCE FOR ALL THOSE ENGAGED IN THE BUSINESS OF MAKING AND USING CHOCOLATE WORLDWIDE CONFECTIONERY AND CHOCOLATE SCIENTISTS IN INDUSTRY AND ACADEMIA STUDENTS AND PRACTISING FOOD SCIENTISTS AND TECHNOLOGISTS NUTRITIONISTS AND OTHER HEALTH PROFESSIONALS AND LIBRARIES OF INSTITUTIONS WHERE AGRICULTURE FOOD SCIENCE AND NUTRITION IS STUDIED AND RESEARCHED

CHOCOLATE SCIENCE AND TECHNOLOGY

2016-04-07

THERE ARE SUPRISING FEW BOOKS ON THE SUBJECT OF CHOCOLATE MANUFACTURE AND THIS VOLUME WILL UNDOUBTEDLY CONTINUE TO LEAD THE FIELD TRENDS IN FOOD SCIENCE AND TECHNOLOGY

INDUSTRIAL CHOCOLATE MANUFACTURE AND USE

1995-01-01

THE AUTHORS HAD FIVE OBJECTIVES IN PREPARING THIS BOOK I TO BRING TOGETHER RELEVANT INFORMATION ON MANY RAW MATERIALS USED IN THE MANUFACTURE OF SWEETS AND CHOCOLATE II TO DESCRIBE THE PRINCIPLES INVOLVED AND TO RELATE THEM TO PRODUCTION WITH MAXIMUM ECONOMY BUT MAINTAINING HIGH QUALITY III TO DESCRIBE BOTH TRADITIONAL AND MODERN PRODUCTION PROCESSES IN PAR TICULAR THOSE CONTINUOUS METHODS WHICH ARE FINDING INCREASING APPLICATION IV TO GIVE BASIC RECIPES AND METHODS SET OUT IN A FORM FOR EASY REFERENCE FOR PRODUCING A LARGE VARIETY OF SWEETS AND CAPABLE OF EASY MODIFICATION TO SUIT THE RAW MATERIALS AND PLANT AVAILABLE V TO EXPLAIN THE ELEMENTARY CALCULATIONS MOST LIKELY TO BE REQUIRED THE VARIOUS CHECK LISTS AND CHARTS SHOWING THE MORE LIKELY FAULTS AND HOW TO ELIMINATE THEM REFLECT THE FACT THAT ART STILL PLAYS NO SMALL PART IN THIS INDUSTRY TO HELP USERS ALL OVER THE WORLD WHATEVER UNITS THEY EMPLOY MOST FOR MULATIONS ARE GIVEN IN PARTS BY WEIGHT BUT TABLES OF CONVERSION FACTORS ARE PROVIDED AT THE END OF THE BOOK THERE ALSO WILL BE FOUND A COLLECTION OF OTHER GENERAL REFERENCE DATA IN TABULAR FORM WHILE THE GLOSSARY EXPLAINS A NUMBER OF TECHNICAL TERMS MANY OF THEM PECULIAR TO THE INDUSTRY

SUGAR CONFECTIONERY AND CHOCOLATE MANUFACTURE

2012-12-06

CHOCOLATE IS AVAILABLE TO TODAY S CONSUMERS IN A VARIETY OF COLOURS SHAPES AND TEXTURES BUT HOW MANY OF US AS WE SAVOUR OUR FAVOURITE BRAND CONSIDER THE SCIENCE THAT HAS GONE INTO ITS MANUFACTURE THIS BOOK DESCRIBES THE COMPLETE CHOCOLATE MAKING PROCESS FROM THE GROWING OF THE BEANS TO THE SALE IN THE SHOPS THE SCIENCE OF CHOCOLATE FIRST DESCRIBES THE HISTORY OF THIS INTRIGUING SUBSTANCE SUBSEQUENT CHAPTERS COVER THE INGREDIENTS AND PROCESSING TECHNIQUES ENABLING THE READER TO DISCOVER NOT ONLY HOW CONFECTIONERY IS MADE BUT ALSO HOW BASIC SCIENCE PLAYS A VITAL ROLE WITH COVERAGE OF SCIENTIFIC PRINCIPLES SUCH AS LATENT AND SPECIFIC HEAT MAILLARD REACTIONS AND ENZYME PROCESSES THERE IS ALSO DISCUSSION OF THE MONITORING AND CONTROLLING OF THE PRODUCTION PROCESS AND THE IMPORTANCE AND VARIETY OF THE PACKAGING USED TODAY A SERIES OF EXPERIMENTS WHICH CAN BE ADAPTED TO SUIT STUDENTS OF ALMOST ANY AGE IS INCLUDED TO DEMONSTRATE THE PHYSICAL CHEMICAL OR MATHEMATICAL PRINCIPLES INVOLVED IDEAL FOR THOSE STUDYING FOOD SCIENCE OR ABOUT TO JOIN THE CONFECTIONERY INDUSTRY THIS MOUTH WATERING TITLE WILL ALSO BE OF INTEREST TO ANYONE WITH A DESIRE TO KNOW MORE ABOUT THE PRODUCTION OF THE WORLD S FAVOURITE CONFECTIONERY

THE SCIENCE OF CHOCOLATE

2007-10-31

THE SCIENCE OF CHOCOLATE LEADS THE READER TO AN UNDERSTANDING OF THE COMPLETE CHOCOLATE MAKING PROCESS AND INCLUDES THE WAYS IN WHICH BASIC SCIENCE PLAYS A VITAL ROLE IN ITS MANUFACTURE TESTING AND CONSUMPTION ORIGINALLY BASED UPON A TALK TO ENCOURAGE SCHOOL CHILDREN TO STUDY SCIENCE THE BOOK IS NOW WIDELY USED WITHIN INDUSTRY AND ACADEMIA THE THIRD EDITION OF THIS INTERNATIONAL BEST SELLER HAS BEEN FULLY REVISED AND UPDATED THE AUTHOR HAS NOW INCLUDED METHODS OF SENSORY EVALUATION DESIGNING AND MODIFYING CHOCOLATE FLAVOUR TO SUIT THE PRODUCT AND THE HISTORY AND MANUFACTURE OF SOME WELL KNOWN CONFECTIONERY PRODUCTS FAT CALORIE AND SUGAR REDUCTION ARE ALSO COVERED INCLUDING A REVIEW OF PATENTS IN THIS AREA IN ADDITION THE SECTION ON WHY CHOCOLATE MIGHT BE GOOD FOR YOU HAS BEEN UPDATED TO INCLUDE SOME MORE RECENT RESEARCH RESULTS THREE NEW EXPERIMENTS HAVE BEEN ADDED SO THERE ARE NOW TWENTY OF THEM WHICH USE SIMPLE MATERIALS AND APPARATUS TO DEMONSTRATE THE SCIENTIFIC AND MATHEMATICAL PRINCIPLES FOUND IN THE REST OF THE BOOK MOST ARE EASILY ADAPTED TO SUIT DIFFERENT STUDENT ABILITIES THIS BOOK WILL APPEAL TO THOSE WITH A FASCINATION FOR CHOCOLATE AND WILL BE OF SPECIALIST INTEREST TO THOSE STUDYING FOOD SCIENCES AND WORKING IN THE CONFECTIONERY INDUSTRY EXTRACTS FROM REVIEWS OF 2ND EDITION I FOUND THIS TO BE AN INTERESTING FREAD AND I THINK THE BOOK WOULD BE USEFUL TO GRADUATES THINKING OF A CAREER IN THE FOOD INDUSTRY AND NOT JUST THE CHOCOLATE INDUSTRY SPECIFICALLY TO SCHOOL SCIENCE SAND WORKING IN THE CONFECTIONERY MOD SCIENCE LOOKING FOR INTERESTING FACT STO ENLIVEN THE LECTURES BIOSCIENCE EDUCATION VOLUME 12 2008 E J WOOD VERY WELL WRITTEN AND COMPLETE BOOK FOR EVERYONE WHO WANTS TO LEARN MORE ABOUT CHOCOLATE AND ITS PRODUCTION PROCESS CRYSTALLOGRAPHY REVIEWS VOLUME 15 2009 ISSUE 4 PAGES 275 277 HENK SCHEMK THE EASY READING STYLE OF THE BOOK MAKES IT VALUABLE NOT ONLY TO SCHOOL AND UNIVERSITY STUDENTS BUT ALSO TO THOSE WHO ARE NEW TO WORKING WITH CHOCOLATE OR THOSE NEEDING A GOOD SUMMARY OF CHOCOLATE AND ITS

The Science of Chocolate

2018-11-15

CONFECTIONERY AND CHOCOLATE MANUFACTURE HAS BEEN DOMINATED BY LARGE SCALE INDUSTRIAL PROCESSING FOR SEVERAL DECADES IT IS OFTEN THE CASE THOUGH THAT A TRIAL AND ERROR APPROACH IS APPLIED TO THE DEVELOPMENT OF NEW PRODUCTS AND PROCESSES RATHER THAN VERIFIED SCIENTIFIC PRINCIPLES CONFECTIONERY AND CHOCOLATE ENGINEERING PRINCIPLES AND APPLICATIONS SECOND EDITION ADDS TO INFORMATION PRESENTED IN THE FIRST EDITION ON ESSENTIAL TOPICS SUCH AS FOOD SAFETY QUALITY ASSURANCE SWEETS FOR SPECIAL NUTRITIONAL PURPOSES ARTIZAN CHOCOLATE AND CONFECTIONERIES IN ADDITION INFORMATION IS PROVIDED ON THE FADING MEMORY OF VISCOELASTIC FLUIDS WHICH ARE BRIEFLY DISCUSSED IN TERMS OF FRACTIONAL CALCULUS AND GELATION AS A SECOND ORDER PHASE TRANSITION CHEMICAL OPERATIONS SUCH AS INVERSION CARAMELIZATION AND THE MAILLARD REACTION AS WELL AS THE COMPLEX OPERATIONS INCLUDING CONCHING DRYING FRYING BAKING AND ROASTING USED IN CONFECTIONERY MANUFACTURE ARE ALSO DESCRIBED THIS BOOK PROVIDES FOOD ENGINEERS SCIENTISTS TECHNOLOGISTS AND STUDENTS IN RESEARCH INDUSTRY AND FOOD AND CHEMICAL ENGINEERING RELATED COURSES WITH A SCIENTIFIC THEORETICAL DESCRIPTION AND ANALYSIS OF CONFECTIONERY MANUFACTURING OPENING UP NEW POSSIBILITIES FOR PROCESS AND PRODUCT IMPROVEMENT RELATING TO INCREASED EFFICIENCY OF OPERATIONS THE USE OF NEW MATERIALS AND NEW APPLICATIONS FOR TRADITIONAL RAW MATERIALS

CONFECTIONERY AND CHOCOLATE ENGINEERING

2023-10-23

COCOA CHOCOLATE AND ICE CREAM ARE THE PRODUCTS WHICH HAS A GOOD NUTRITIOUS VALUE AND RELATIVELY INEXPENSIVE FOOD COCOA BUTTER IS USED IN CHOCOLATE AND TO COVER OTHER CONFECTIONERY PRODUCTS NOW A DAY CHOCOLATE AND ICE CREAM ARE GAINING GOOD POPULARITY AMONG THE SOCIETY ALL OVER THE WORLD CHOCOLATE IS A KEY INGREDIENT IN MANY FOODS SUCH AS MILK SHAKES CANDY BARS ICE CREAMS ETC IT IS RANKED AS ONE OF THE MOST FAVORITE FLAVORS IN THE WORLD DESPITE ITS POPULARITY MOST PEOPLE DO NOT KNOW THE UNIQUE ORIGINS OF THIS POPULAR TREAT CHOCOLATE IS A PRODUCT THAT REQUIRES COMPLEX PROCEDURES TO PRODUCE THE PROCESS INVOLVES HARVESTING COCA REFINING COCA TO COCOA BEANS AND SHIPPING THE COCOA BEANS TO THE MANUFACTURING FACTORY FOR CLEANING COACHING AND GRINDING THESE COCOA BEANS WILL THEN BE IMPORTED OR EXPORTED TO OTHER COUNTRIES AND BE TRANSFORMED INTO DIFFERENT TYPE OF CHOCOLATE PRODUCTS ICE CREAM IS A FROZEN DESSERT USUALLY MADE FROM DAIRY PRODUCTS SUCH AS MILK AND CREAM AND OFTEN COMBINED WITH FRUITS OR OTHER INGREDIENTS AND FLAVORS THE MEANING OF ICE CREAM VARIES FROM ONE COUNTRY TO ANOTHER LIKE FROZEN CUSTARD FROZEN YOGURT SORBET AND GELATO AND SO ON THE ICE CREAM INDUSTRY HAS TRADITIONALLY GROWN AT A HEALTHY RATE OF 12 PER ANNUM INDIA IS THE SECOND LARGEST MILK PRODUCING COUNTRY MILK PRODUCTS LIKE BUTTER CURD GHEE ETC HAVE BECOME AN ESSENTIAL PART OF OUR FOOD AND ARE CONSUMED IN GOOD QUANTITY EVERY DAY IN SPITE OF THE HUGE DEMAND THAT EXISTS FOR SUCH MILK BASED ITEMS CONVENTIONAL METHODS ARE EMPLOYED FOR PRODUCING THESE ITEMS THE GROWTH IN COCOA CHOCOLATE ICE CREAM AND OTHER MILK PRODUCT INDUSTRY HAS BEEN PRIMARILY DUE TO STRENGTHENING OF DISTRIBUTION NETWORK AND COLD CHAIN INFRASTRUCTURE SOME OF THE FUNDAMENTALS OF THE BOOK ARE COCOA BEAN PRODUCTION SOURCES OF COCOA BEAN SUPPLIES REFINING FOR PRODUCTION OF CHOCOLATE MASSES FOR DIFFERENT USES SHIPMENT OF COCOA BEANS COCOA PROCESSES COCOA FOR DRINKING INSTANT COCOAS DRINKING CHOCOLATES MANUFACTURING COCOA COCOA BUTTER REPLACEMENT FATS COATINGS AND COCOA CHOCOLATE MANUFACTURE CHOCOLATE BARS AND COVERED CONFECTIONERY CHOCOLATE MOLDING DETERMINATION OF FAT IN COCOA AND CHOCOLATE PRODUCTS DETERMINATION OF COOLING CURVE OF COCOA BUTTER AND SIMILAR FATS THE MANUFACTURE OF DAIRY PRODUCTS ICE CREAM MANUFACTURE ENERGY VALUE AND NUTRIENTS OF ICE CREAM ETC THE PRESENT BOOK CONTAIN FORMULAE PROCESSES AND OTHER RELEVANT DETAILS RELATED TO MANUFACTURE OF COCOA PRODUCTS CHOCOLATES ICE CREAM AND OTHER MILK PRODUCTS AN ATTEMPT HAS BEEN MADE TO BRING IN TO FOCUS THE SIGNIFICANT ASPECT OF COCOA PRODUCTS DAIRY PRODUCTS MANUFACTURING IT IS HOPED THAT THE SUBJECT MATTER CONTAIN AND ITS PRESENTATION WILL BE VERY HELPFUL TO NEW ENTREPRENEURS PROFESSIONALS INSTITUTIONS TECHNOCRATS AND STUDENTS ETC

THE COMPLETE TECHNOLOGY BOOK ON COCOA, CHOCOLATE, ICE CREAM AND OTHER MILK PRODUCTS

2005-06-12

CONFECTIONERY AND CHOCOLATE MANUFACTURE HAS BEEN DOMINATED BY LARGE SCALE INDUSTRIAL PROCESSING FOR SEVERAL DECADES IT IS OFTEN THE CASE THOUGH THAT A TRIAL AND ERROR APPROACH IS APPLIED TO THE DEVELOPMENT OF NEW PRODUCTS AND PROCESSES RATHER THAN VERIFIED SCIENTIFIC PRINCIPLES THE PURPOSE OF THIS BOOK IS TO DESCRIBE THE FEATURES OF UNIT OPERATIONS USED IN CONFECTIONARY MANUFACTURING IN CONTRAST TO THE COMMON TECHNOLOGY FOCUSED APPROACH TO THIS SUBJECT THIS VOLUME OFFERS A SCIENTIFIC THEORETICAL ACCOUNT OF CONFECTIONARY MANUFACTURE BUILDING ON THE SCIENTIFIC BACKGROUND OF CHEMICAL ENGINEERING THE LARGE DIVERSITY OF BOTH RAW MATERIALS AND END PRODUCTS IN THE CONFECTIONERY INDUSTRY MAKES IT BENEFICIAL TO APPROACH THE SUBJECT IN THIS WAY THE INDUSTRY DEALS WITH A VARIETY OF VEGETABLE BASED RAW MATERIALS AS WELL AS MILK PRODUCTS EGGS GELATIN AND OTHER ANIMAL BASED RAW MATERIALS A STUDY OF CONFECTIONERY AND CHOCOLATE ENGINEERING MUST THEREFORE EXAMINE THE PHYSICAL AND CHEMICAL AS WELL AS THE BIOCHEMICAL AND MICROBIOLOGICAL PROPERTIES OF THE PROCESSED MATERIALS BY CHARACTERIZING THE UNIT OPERATIONS OF CONFECTIONERY MANUFACTURE THE AUTHOR WHO HAS OVER 40 YEARS EXPERIENCE IN CONFECTIONERY MANUFACTURE AIMS TO OPEN UP NEW POSSIBILITIES FOR IMPROVEMENT RELATING TO INCREASED EFFICIENCY OF OPERATIONS THE USE OF NEW MATERIALS AND NEW APPLICATIONS FOR TRADITIONAL RAW MATERIALS THE BOOK IS AIMED AT FOOD ENGINEERS SCIENTISTS TECHNOLOGISTS IN RESEARCH AND INDUSTRY AS WELL AS GRADUATE STUDENTS ON RELEVANT FOOD AND CHEMICAL ENGINEERING RELATED COURSES

CONFECTIONERY AND CHOCOLATE ENGINEERING

2010-11-29

DIGICAT PUBLISHING PRESENTS TO YOU THIS SPECIAL EDITION OF THE MANUFACTURE OF CHOCOLATE AND OTHER CACAO PREPARATIONS BY PAUL ZIPPERER DIGICAT PUBLISHING CONSIDERS EVERY WRITTEN WORD TO BE A LEGACY OF HUMANKIND EVERY DIGICAT BOOK HAS BEEN CAREFULLY REPRODUCED FOR REPUBLISHING IN A NEW MODERN FORMAT THE BOOKS ARE AVAILABLE IN PRINT AS WELL AS EBOOKS DIGICAT HOPES YOU WILL TREAT THIS WORK WITH THE ACKNOWLEDGMENT AND PASSION IT DESERVES AS A CLASSIC OF WORLD LITERATURE

THE MANUFACTURE OF CHOCOLATE AND OTHER CACAO PREPARATIONS

2022-09-04

SINCE THE PUBLICATION OF THE FIRST EDITION OF INDUSTRIAL CHOCOLATE MANUFACTURE AND USE IN 1988 IT HAS BECOME THE LEADING TECHNICAL BOOK FOR THE INDUSTRY FROM THE BEGINNING IT WAS RECOGNISED THAT THE COMPLEXITY OF THE CHOCOLATE INDUSTRY MEANS THAT NO SINGLE PERSON CAN BE AN EXPERT IN EVERY ASPECT OF IT FOR EXAMPLE THE ACADEMIC VIEW OF A PROCESS SUCH AS CRYSTALLISATION CAN BE VERY DIFFERENT FROM THAT OF A TEMPERING MACHINE OPERATOR SO SOME TOPICS HAVE MORE THAN ONE CHAPTER TO TAKE THIS INTO ACCOUNT IT IS ALSO KNOWN THAT THE BIGGEST SELLING CHOCOLATE IN SAY THE USA TASTES VERY DIFFERENT FROM THAT IN THE UK SO THE AUTHORS IN THE BOOK WERE CHOSEN FROM A WIDE VARIETY OF COUNTRIES MAKING THE BOOK TRULY INTERNATIONAL EACH NEW EDITION IS A MIXTURE OF UPDATES REWRITES AND NEW TOPICS IN THIS BOOK THE NEW SUBJECTS INCLUDE ARTISAN OR CRAFT SCALE PRODUCTION COMPOUND CHOCOLATES AND SENSORY THIS BOOK IS AN ESSENTIAL PURCHASE FOR ALL THOSE INVOLVED IN THE MANUFACTURE USE AND SALE OF CHOCOLATE CONTAINING PRODUCTS ESPECIALLY FOR CONFECTIONERY AND CHOCOLATE SCIENTISTS ENGINEERS AND TECHNOLOGISTS WORKING BOTH IN INDUSTRY AND ACADEMIA THE NEW EDITION ALSO BOASTS TWO NEW CO EDITORS MARK FOWLER AND GREG ZIEGLER BOTH OF WHOM HAVE CONTRIBUTED CHAPTERS TO PREVIOUS EDITIONS OF THE BOOK MARK FOWLER HAS HAD A LONG CAREER AT NESTLE UK WORKING IN COCOA AND CHOCOLATE RESEARCH AND DEVELOPMENT HE IS RETIRING IN 2013 GREG ZIEGLER IS A PROFESSOR IN THE FOOD SCIENCE DEPARTMENT AT PENN STATE UNIVERSITY IN THE USA

COCOA AND CHOCOLATE, THEIR CHEMISTRY AND MANUFACTURE

1921

THIS EARLY WORK ON CHOCOLATE MANUFACTURING IS BOTH EXPENSIVE AND HARD TO FIND IN ITS FIRST EDITION IT DETAILS THE MANY STAGES OF CHOCOLATE PRODUCTION FROM THE COCOA BEAN TO THE SHELF THIS IS A FASCINATING WORK AND IS THOROUGHLY RECOMMENDED FOR ANYONE INTERESTED IN THE CHOCOLATE INDUSTRY MANY OF THE EARLIEST BOOKS PARTICULARLY THOSE DATING BACK TO THE 1900S AND BEFORE ARE NOW EXTREMELY SCARCE WE ARE REPUBLISHING THESE CLASSIC WORKS IN AFFORDABLE HIGH QUALITY MODERN EDITIONS USING THE ORIGINAL TEXT AND ARTWORK

A HISTORY OF SWEET AND CHOCOLATE MANUFACTURE

1988

IN THIS BOOK UPDATED INFORMATION ON ALL MAJOR ASPECTS OF THE HARVESTING AND CHOCOLATE MANUFACTURE OF VENEZUELAN COCOA ARE COMPILED AND DISCUSSED THE MAJOR QUALITY FACTORS IN CHOCOLATE PROCESSING FROM THE POST HARVEST TO ITS MANUFACTURE ARE STUDIED COVERING TOPICS SUCH AS COCOA CULTIVATION AND PROCESSING WITH SPECIAL ATTENTION PAID TO BEAN COMPOSITION AND ITS GENOTYPIC VARIATIONS FERMENTATION AND DRYING PROCESSES AND THE CHEMICAL AND BIOCHEMICAL BASIS OF THESE OPERATIONS AND THE PROCEDURES OF CONCHING TEMPERING MOULDING AND ENROBING THE MICROBIOLOGICAL AND PHYSICOCHEMICAL FACTORS THAT AFFECT THE SAFETY AND QUALITY OF CHOCOLATE ARE ALSO COMPILED THE COMPOSITION AND IMPORTANCE OF THE TRIGLYCERIDES THAT MAKE UP COCOA BUTTER AND THE PHYSIC CHEMICAL FACTORS ASSOCIATED WITH THE CRYSTALLISATION AND STABILITY OF THESE FATS IN THE MANUFACTURE OF CHOCOLATE ARE EVALUATED A REVIEW AND DISCUSSION OF THE CONVENTIONAL PERCEPTION AS REGARDS THE TYPES AND COMPOSITION OF CHOCOLATE COMPARING IT TO RECENT REPORTS IN LITERATURE WHICH SCIENTIFICALLY DEMONSTRATE THAT CHOCOLATE CAN BE CONSIDERED AS A FUNCTIONAL FOOD ARE AVAILABLE IN THIS BOOK AN ASSEMBLAGE OF PUBLISHED INFORMATION OF THE DIFFERENT ASPECTS THAT MAKE UP THE SENSORY QUALITY OF CHOCOLATE BASIC TECHNIQUES OF PHOTOGRAPHY AND STYLING AND ITS APPLICATIONS IN THE CHOCOLATE AS WELL AS THE PARAMETERS INHERENT IN THE COMPOSITION AND PHYSICAL PROPERTIES INVOLVED IN THE FINAL APPEARANCE OF THE CHOCOLATE IS DISCUSSED THE ORGANISATION THE DAY TO DAY RUNNING PRODUCTION AND QUALITY CONTROL OF THE PRODUCTS MADE BY THE VENEZUELAN SOCIALIST ENTERPRISE CACAO ODER? AND THE ACTIVITIES OF THE CHOCOLATE SCHOOL DE LA ALBA ARE SHOWN FINALLY THE PROXIMATE COMPOSITION AND SOME NUTRITIONAL AND FUNCTIONAL PROPERTIES OF COCOA BY PRODUCTS POD HUSKS AND BEAN COATS WERE ANALYSED IN ORDER TO PROPOSE THEM FOR FEED AND FOOD USES

SUGAR CONFECTIONERY AND CHOCOLATE MANUFACTURE

1999

CHOCOLATE LAYER CAKE FUDGE BROWNIES CHOCOLATE CHIP COOKIES BOXES OF CHOCOLATE TRUFFLES CUPS OF COCOA HOT FUDGE SUNDAES CHOCOLATE IS SYNONYMOUS WITH OUR CULTURAL SWEET TOOTH OUR RESTAURANT DESSERT MENUS AND OUR IDEA OF INDULGENCE CHOCOLATE IS ADORED AROUND THE WORLD AND HAS BEEN SINCE THE SPANISH FIRST ENCOUNTERED COCOA BEANS IN SOUTH AMERICA IN THE SIXTEENTH CENTURY IT IS SEEN AS MAGICAL ADDICTIVE AND POWERFUL BEYOND ANYTHING THAT CAN BE EXPLAINED BY ITS INGREDIENTS AND IN CHOCOLATE SARAH MOSS AND ALEC BADENOCH EXPLORE THE ORIGINS AND GROWTH OF THIS ALMOST UNIVERSAL OBSESSION MOSS AND BADENOCH RECOUNT THE HISTORY OF CHOCOLATE WHICH FROM ANCIENT TIMES HAS BEEN ASSOCIATED WITH SEXUALITY SIN BLOOD AND SACRIFICE THE FIRST SPANISH ACCOUNTS CLAIM THAT THE AZTECS AND MAYANS USED CHOCOLATE AS A SUBSTITUTE FOR BLOOD IN SACRIFICIAL RITUALS AND AS A CURRENCY TO REPLACE GOLD IN THE EIGHTEENTH CENTURY CHOCOLATE BECAME REGARDED AS AN APHRODISIAC THE FIRST STEP ON THE ROAD TO TODAY S BOXES OF VALENTINE DELIGHTS CHOCOLATE ALSO LOOKS AT TODAY S MASS PRODUCTION OF CHOCOLATE WITH BRANDS SUCH AS HERSHEY S LINDT AND CADBURY DOMINATING OUR SUPERMARKET SHELVES PACKED WITH TEMPTING IMAGES AND DECADENT DESCRIPTIONS OF CHOCOLATE THROUGHOUT THE AGES CHOCOLATE WILL BE AS IRRESISTIBLE AS THE TASTY TREATS IT DESCRIBES

FAULTS, CAUSES AND REMEDIES

1980

ENROBED AND FILLED CONFECTIONERY AND BAKERY PRODUCTS SUCH AS PRALINE STYLE CHOCOLATES CONFECTIONERY BARS AND CHOCOLATE COATED BISCUITS AND ICE CREAMS ARE POPULAR WITH CONSUMERS THE COATING AND FILLING CAN NEGATIVELY AFFECT PRODUCT QUALITY AND SHELF LIFE BUT WITH THE CORRECT PRODUCT DESIGN AND MANUFACTURING TECHNOLOGY THE CHARACTERISTICS OF THE END PRODUCT CAN BE MUCH IMPROVED THIS BOOK PROVIDES A COMPREHENSIVE OVERVIEW OF QUALITY ISSUES AFFECTING ENROBED AND FILLED PRODUCTS AND STRATEGIES TO ENHANCE PRODUCT QUALITY PART ONE REVIEWS THE FORMULATION OF COATINGS AND FILLINGS WITH CHAPTERS ON KEY TOPICS SUCH AS CHOCOLATE MANUFACTURE CONFECTIONERY FATS COMPOUND COATINGS AND FAT AND SUGAR BASED FILLINGS PRODUCT DESIGN ISSUES SUCH AS OIL MOISTURE AND ETHANOL MIGRATION AND CHOCOLATE AND FILLING RHEOLOGY ARE THE FOCUS OF PART TWO SHELF LIFE PREDICTION AND TESTING ARE ALSO DISCUSSED PART THREE THEN COVERS THE LATEST INGREDIENT PREPARATION AND MANUFACTURING TECHNOLOGY FOR OPTIMUM PRODUCT QUALITY CHAPTERS EXAMINE TEMPERING ENROBING CHOCOLATE PANNING PRODUCTION OF CHOCOLATE SHELLS AND DEPOSITION TECHNOLOGY WITH ITS EXPERIENCED TEAM OF AUTHORS SCIENCE AND TECHNOLOGY OF ENROBED AND FILLED CHOCOLATE CONFECTIONERY AND BAKERY PRODUCTS IS AN ESSENTIAL PURCHASE FOR PROFESSIONALS IN THE CHOCOLATE CONFECTIONERY AND BAKERY INDUSTRIES PROVIDES A COMPREHENSIVE REVIEW OF QUALITY ISSUES AFFECTING ENROBED AND FILLED PRODUCTS REVIEWS THE FORMULATION OF COATINGS AND FILLINGS ADDRESSING CONFECTIONERY FATS COMPOUND COATINGS AND SUGAR BASED FILLINGS FOCUSES ON PRODUCT DESIGN ISSUES SUCH AS OIL MOISTURE AND CHOCOLATE CONFECTIONERY AND BAKERY INDUSTRIES PROVIDES A COMPREHENSIVE REVIEW OF QUALITY ISSUES AFFECTING ENROBED AND FILLED PRODUCTS REVIEWS THE FORMULATION OF COATINGS AND FILLINGS ADDRESSING CONFECTIONERY FATS COMPOUND COATINGS AND SUGAR BASED FILLINGS FOCUSES ON PRODUCT DESIGN ISSUES SUCH AS OIL MOISTURE AND CHOCOLATE FILLING RHEOLOGY

BECKETT'S INDUSTRIAL CHOCOLATE MANUFACTURE AND USE

2017-02-15

COCOA AND CHOCOLATE 1765 1914 FOCUSES ON THE PERIOD FROM THE SEVEN YEARS WAR TO THE FIRST WORLD WAR WHEN A SURGE OF ECONOMIC LIBERALISM AND GLOBALISATION SHOULD HAVE HELPED COCOA PRODUCERS TO OVERCOME RURAL POVERTY JUST AS WOOL TRANSFORMED THE ECONOMY OF AUSTRALIA AND TEA THAT OF JAPAN THE ADDITION OF NEW FORMS OF CHOCOLATE TO WESTERN DIETS IN THE LATE NINETEENTH CENTURY LED TO A GREAT COCOA BOOM AND YET ECONOMIC DEVELOPMENT REMAINED ELUSIVE DESPITE COCOA PRODUCERS HAVING CERTAIN ADVANTAGES IN THE COMMODITY LOTTERY FACED BY EXPORTERS OF RAW MATERIALS THE COMMODITY CHAIN FROM SOWING A COCOA BEAN TO ENJOYING A CUP OF HOT CHOCOLATE IS EXAMINED IN COCOA AND CHOCOLATE 1765 1914 UNDER THE BROAD RUBRICS OF CHOCOLATE CONSUMPTION THE TAXATION OF COCOA BEANS THE MANUFACTURE OF CHOCOLATE PRIVATE MARKETING CHANNELS LAND DISTRIBUTION ECOLOGICAL IMPACT ON TROPICAL FORESTS AND THE COERCION OF LABOUR COCOA AND CHOCOLATE 1765 1914 CONCLUDES THAT COCOA FAILED TO ACT AS A DYNAMO FOR DEVELOPMENT

INDUSTRIAL CHOCOLATE MANUFACTURE AND USE

2012-12-06

THIS WORK HAS BEEN SELECTED BY SCHOLARS AS BEING CULTURALLY IMPORTANT AND IS PART OF THE KNOWLEDGE BASE OF CIVILIZATION AS WE KNOW IT THIS WORK IS IN THE PUBLIC DOMAIN IN THE UNITED STATES OF AMERICA AND POSSIBLY OTHER NATIONS WITHIN THE UNITED STATES YOU MAY FREELY COPY AND DISTRIBUTE THIS WORK AS NO ENTITY INDIVIDUAL OR CORPORATE HAS A COPYRIGHT ON THE BODY OF THE WORK SCHOLARS BELIEVE AND WE CONCUR THAT THIS WORK IS IMPORTANT ENOUGH TO BE PRESERVED REPRODUCED AND MADE GENERALLY AVAILABLE TO THE PUBLIC TO ENSURE A QUALITY READING EXPERIENCE THIS WORK HAS BEEN PROOFREAD AND REPUBLISHED USING A FORMAT THAT SEAMLESSLY BLENDS THE ORIGINAL GRAPHICAL ELEMENTS WITH TEXT IN AN EASY TO READ TYPEFACE WE APPRECIATE YOUR SUPPORT OF THE PRESERVATION PROCESS AND THANK YOU FOR BEING AN IMPORTANT PART OF KEEPING THIS KNOWLEDGE ALIVE AND RELEVANT

COCOA AND CHOCOLATE - THEIR HISTORY FROM PLANTATION TO CONSUMER

2013-04-16

THIS IS A REPRODUCTION OF A BOOK PUBLISHED BEFORE 1923 THIS BOOK MAY HAVE OCCASIONAL IMPERFECTIONS SUCH AS MISSING OR BLURRED PAGES POOR PICTURES ERRANT MARKS ETC THAT WERE EITHER PART OF THE ORIGINAL ARTIFACT OR WERE INTRODUCED BY THE SCANNING PROCESS WE BELIEVE THIS WORK IS CULTURALLY IMPORTANT AND DESPITE THE IMPERFECTIONS HAVE ELECTED TO BRING IT BACK INTO PRINT AS PART OF OUR CONTINUING COMMITMENT TO THE PRESERVATION OF PRINTED WORKS WORLDWIDE WE APPRECIATE YOUR UNDERSTANDING OF THE IMPERFECTIONS IN THE PRESERVATION PROCESS AND HOPE YOU ENJOY THIS VALUABLE BOOK

CHOCOLATE PRODUCTION AND USE

1963

ONE OF THE LARGEST FOOD COMMODITIES EXPORTED FROM THE DEVELOPING COUNTRIES TO THE REST OF THE WORLD COCOA HAS GAINED INCREASING ATTENTION ON THE GLOBAL MARKET RAISING MANY QUESTIONS ABOUT ITS QUALITY SUSTAINABILITY AND TRACEABILITY COCOA PRODUCTION AND PROCESSING TECHNOLOGY PRESENTS DETAILED EXPLANATIONS OF THE TECHNOLOGIES THAT COULD BE EMPLOYED TO ASSURE SUSTAINABLE PRODUCTION OF HIGH QUALITY AND SAFE COCOA BEANS FOR THE GLOBAL CONFECTIONARY INDUSTRY IT PROVIDES OVERVIEWS OF UP TO DATE TECHNOLOGIES AND APPROACHES TO MODERN COCOA PRODUCTION PRACTICES GLOBAL PRODUCTION AND CONSUMPTION TRENDS AS WELL AS PRINCIPLES OF COCOA PROCESSING AND CHOCOLATE MANUFACTURE THE BOOK COVERS THE ORIGIN HISTORY AND TAXONOMY OF COCOA AND EXAMINES THE FAIRTRADE AND ORGANIC COCOA INDUSTRIES AND THEIR INFLUENCE ON SMALLHOLDER FARMERS THE CHAPTERS PROVIDE IN DEPTH COVERAGE OF COCOA CULTIVATION HARVESTING AND POST HARVEST TREATMENTS WITH A FOCUS ON COCOA BEAN COMPOSITION GENOTYPIC VARIATIONS AND THEIR INFLUENCE ON QUALITY POST HARVEST PRE TREATMENTS FERMENTATION TECHNIQUES DRYING STORAGE AND TRANSPORTATION THE AUTHOR PROVIDES DETAILS ON COCOA FERMENTATION PROCESSES AS WELL AS THE BIOCHEMICAL AND MICROBIOLOGICAL CHANGES INVOLVED AND HOW THEY INFLUENCE FLAVOUR HE ALSO ADDRESSES COCOA TRADING SYSTEMS BEAN SELECTION AND QUALITY CRITERIA AS WELL AS INDUSTRIAL PROCESSING OF FERMENTED AND DRIED COCOA BEANS INTO LIQUOR CAKE BUTTER AND POWDER THE BOOK EXAMINES THE GENERAL PRINCIPLES OF CHOCOLATE MANUFACTURE DETAILING THE VARIOUS STAGES OF THE PROCESSES INVOLVED THE FACTORS THAT INFLUENCE THE QUALITY CHARACTERISTICS AND STRATEGIES TO AVOID POST PROCESSING QUALITY DEFECTS THIS VOLUME PRESENTS INNOVATIVE TECHNIQUES FOR SUSTAINABILITY AND TRACEABILITY IN HIGH QUALITY COCOA PRODUCTION AND EXPLORES NEW PRODUCT DEVELOPMENT WITH POTENTIAL FOR COST REDUCTION AS WELL AS IMPROVED COCOA BEAN AND CHOCOLATE PRODUCT QUALITY

CHOCOLATE

2015

EXCERPT FROM COCOA AND CHOCOLATE THEIR CHEMISTRY AN MANUFACTURE FOR THE FIRST TIME THE CHEMICAL COMPOSITION OF CACAO HAS BEEN TRACED FROM THE FRESH BEANS THROUGH THE VARIOUS STAGES OF MANUFACTURE SO THAT THE CHANGES WHICH OCCUR DURING FERMENTATION DRYING ROASTING ETC MAY BE FOLLOWED THE MOST RECENT METHODS OF ANALYSIS HAVE BEEN DIS CUSSED AND THE AUTHOR HAS ONLY RECOMMENDED THOSE WHICH HE HIMSELF HAS FOUND TO GIVE ACCURATE AND CONSISTENT RESULTS ABOUT THE PUBLISHER FORGOTTEN BOOKS PUBLISHES HUNDREDS OF THOUSANDS OF RARE AND CLASSIC BOOKS FIND MORE AT FORGOTTENBOOKS COM THIS BOOK IS A REPRODUCTION OF AN IMPORTANT HISTORICAL WORK FORGOTTEN BOOKS USES STATE OF THE ART TECHNOLOGY TO DIGITALLY RECONSTRUCT THE WORK PRESERVING THE ORIGINAL FORMAT WHILST REPAIRING IMPERFECTIONS PRESENT IN THE AGED COPY IN RARE CASES AN IMPERFECTION IN THE ORIGINAL SUCH AS A BLEMISH OR MISSING PAGE MAY BE REPLICATED IN OUR EDITION WE DO HOWEVER REPAIR THE VAST MAJORITY OF IMPERFECTIONS SUCCESSFULLY ANY IMPERFECTIONS THAT REMAIN ARE INTENTIONALLY LEFT TO PRESERVE THE STATE OF SUCH HISTORICAL WORKS

COCOA AND CHOCOLATE, THEIR CHEMISTRY AN MANUFACTURE

2018

IN THIS BOOK UPDATED INFORMATION ON ALL MAJOR ASPECTS OF THE HARVESTING AND CHOCOLATE MANUFACTURE OF VENEZUELAN COCOA ARE COMPILED AND DISCUSSED THE MAJOR QUALITY FACTORS IN CHOCOLATE PROCESSING FROM THE POST HARVEST TO ITS MANUFACTURE ARE STUDIED COVERING TOPICS SUCH AS COCOA CULTIVATION AND PROCESSING WITH SPECIAL ATTENTION PAID TO BEAN COMPOSITION AND ITS GENOTYPIC VARIATIONS FERMENTATION AND DRYING PROCESSES AND THE CHEMICAL AND BIOCHEMICAL BASIS OF THESE OPERATIONS AND THE PROCEDURES OF CONCHING TEMPERING MOLDING AND ENROBING THE MICROBIOLOGICAL AND PHYSICOCHEMICAL FACTORS THAT AFFECT THE SAFETY AND QUALITY OF CHOCOLATE ARE ALSO COMPILED THE COMPOSITION AND IMPORTANCE OF THE TRIGLYCERIDES THAT MAKE UP COCOA BUTTER AND THE PHYSICO CHEMICAL FACTORS ASSOCIATED WITH THE CRYSTALLIZATION AND STABILITY OF THESE FATS IN THE MANUFACTURE OF CHOCOLATE ARE EVALUATED A REVIEW AND DISCUSSION OF THE CONVENTIONAL PERCEPTION AS REGARDS THE TYPES AND COMPOSITION OF CHOCOLATE COMPARING IT TO RECENT REPORTS IN LITERATURE WHICH SCIENTIFICALLY DEMONSTRATE THAT CHOCOLATE CAN BE CONSIDERED AS A FUNCTIONAL FOOD ARE AVAILABLE IN THIS BOOK AN ASSEMBLAGE OF PUBLISHED INFORMATION OF THE DIFFERENT ASPECTS THAT MAKE UP THE SENSORY QUALITY OF CHOCOLATE BASIC TECHNIQUES OF PHOTOGRAPHY AND STYLING AND ITS APPLICATIONS IN THE CHOCOLATE AS WELL AS THE PARAMETERS INHERENT IN THE COMPOSITION AND PHYSICAL PROPERTIES INVOLVED IN THE FINAL APPEARANCE OF THE CHOCOLATE IS DISCUSSED THE ORGANIZATION THE DAY TO DAY RUNNING PRODUCTION AND QUALITY CONTROL OF THE PRODUCTS MADE BY THE VENEZUELAN SOCIALIST ENTERPRISE CACAO ODER? AND THE ACTIVITIES OF THE CHOCOLATE SCHOOL DE LA ALBA ARE SHOWN FINALLY THE PROXIMATE COMPOSITION AND SOME NUTRITIONAL AND FUNCTIONAL PROPERTIES OF COCOA BY PRODUCTS POD HUSKS AND BEAN COATS WERE ANALYZED IN ORDER TO PROPOSE THEM FOR FEED AND FOOD USES

CHOCOLATE

2009-09-15

THIS WORK HAS BEEN SELECTED BY SCHOLARS AS BEING CULTURALLY IMPORTANT AND IS PART OF THE KNOWLEDGE BASE OF CIVILIZATION AS WE KNOW IT THIS WORK IS IN THE PUBLIC DOMAIN IN THE UNITED STATES OF AMERICA AND POSSIBLY OTHER NATIONS WITHIN THE UNITED STATES YOU MAY FREELY COPY AND DISTRIBUTE THIS WORK AS NO ENTITY INDIVIDUAL OR CORPORATE HAS A COPYRIGHT ON THE BODY OF THE WORK SCHOLARS BELIEVE AND WE CONCUR THAT THIS WORK IS IMPORTANT ENOUGH TO BE PRESERVED REPRODUCED AND MADE GENERALLY AVAILABLE TO THE PUBLIC TO ENSURE A QUALITY READING EXPERIENCE THIS WORK HAS BEEN PROOFREAD AND REPUBLISHED USING A FORMAT THAT SEAMLESSLY BLENDS THE ORIGINAL GRAPHICAL ELEMENTS WITH TEXT IN AN EASY TO READ TYPEFACE WE APPRECIATE YOUR SUPPORT OF THE PRESERVATION PROCESS AND THANK YOU FOR BEING AN IMPORTANT PART OF KEEPING THIS KNOWLEDGE ALIVE AND RELEVANT

CHOCOLATE AND COCOA

1864

IT IS NOW A DECADE SINCE THE APPEARANCE OF THE LAST EDITION AND OWING TO CONTINUAL DELAYS IN THE COMPILING OF THE PRESENT VOLUME THE BOOK HAS BEEN OUT OF PRINT FOR SEVERAL YEARS THESE DELAYS ENSUED BECAUSE THE EDITOR WISHED TO TAKE INTO ACCOUNT THE MOST RECENT DETERMINATIONS AND DECREES OF THE GUILDS AND VARIOUS LEGISLATIVE FACTORS CONNECTED WITH THE INDUSTRY BUT HE WAS AT LENGTH FORCED TO THE CONCLUSION THAT NOTWITHSTANDING THE EXCELLENT ORGANISATION AND LOFTY STANDING OF THE BRANCH UNDER CONSIDERATION IT WAS USELESS TO WAIT FOR ANYTHING FINAL AND ABSOLUTE IN SUCH A FIELD SUGGESTIONS OF POSSIBLE IMPROVEMENTS AND INDICATIONS OF BLEMISHES ARE THEREFORE EARNESTLY INVITED IN ORDER THAT THEY MAY BE DULY ALLOWED FOR IN THE EVENT OF A NEW EDITION THE PLAN FOLLOWED BY ZIPPERER HAS BEEN ADOPTED IN THE MAIN A TRIBUTE DUE TO ITS PREVIOUS SUCCESS YET ON THE OTHER HAND THE ARRANGEMENT OF THE BOOK HAS UNDERGONE SOME ALTERATION AND IS AT LEAST IN THE EDITOR S OPINION A PERCEPTIBLE IMPROVEMENT ALL SCIENTIFIC INDUSTRIAL AND TECHNICAL PROGRESS HAS BEEN TREATED AS FULLY AS POSSIBLE THE ECONOMIC PART IN PARTICULAR HAVING BEEN DILIGENTLY RECAST IT WOULD OF COURSE HAVE BEEN IMPOSSIBLE FOR THE EDITOR TO WRITE ALL THESE CHAPTERS WITHOUT EXTERNAL AID HIS KNOWLEDGE OF THE RESPECTIVE BRANCHES BEING BY NO MEANS EXHAUSTIVE ENOUGH HE MAY THEREFORE BE ALLOWED TO EXPRESS HERE HIS OBLIGATION AND THANKS TO ALL HIS FELLOW WORKERS AND IN PARTICULAR TO THE ASSOCIATION OF GERMAN CHOCOLATE MANUFACTURERS DRESDEN ITS MANAGING DIRECTOR HERR GREIERT THE DIRECTOR OF THE COCOA PURCHASE CO HAMBURG HERR RITTSCHER WHO CONTRIBUTED THE WHOLE OF THE CHAPTER HEADED COMMERCIAL VARIETIES OF CACAO BEANS FURTHER TO PROF DR H RTEL CHIEF INSPECTOR OF THE ROYAL RESEARCH INSTITUTE LEIPSIC DR R B HME MANAGING DIRECTOR OF MESSRS STOLLWERCK BROS CHEMICAL LABORATORY COLOGNE AND TO SUPERINTENDENT ENGINEER SCHNEIDER OF THE FIRM I M LEHMAN DRESDEN AMONG MANY OTHERS MENTION MUST ALSO BE MADE OF THE MANUFACTURERS WHO SO KINDLY PLACED MATERIAL AT THE EDITOR S DISPOSAL LET US HOPE THAT THE WORK WILL MEET WITH A SUCCESS CORRESPONDING TO THE PAINS TAKEN BY THE EDITOR AND PUBLISHERS AND PROVE A REALLY SERVICEABLE HANDBOOK TO THE CHOCOLATE INDUSTRY THE OBJECT OF THIS WORK IS TO FURNISH A SOURCE OF INFORMATION AND ADVICE FOR THOSE WHO ARE INTERESTED IN THE BRANCH OF INDUSTRY TO WHICH IT RELATES THE AUTHOR OF THIS TREATISE HAS THEREFORE ENDEAVOURED NOT ONLY TO DESCRIBE THE MANUFACTURING PROCESSES BUT HE HAS ALSO DEVOTED SPECIAL ATTENTION TO THE RAW MATERIALS EMPLOYED AND ENDEAVOURED TO MAKE THEM GENERALLY FAMILIAR BY REFERENCE TO THE LITERATURE ON THE SUBJECT AS WELL AS BY PROVIDING A PRECISE ACCOUNT OF THE CHEMICAL CONSTITUENTS OF THESE SUBSTANCES AND DISCUSSING THE CONSEQUENTLY NECESSARY PROCEDURE TO BE OBSERVED IN THE COURSE OF MANUFACTURE THE ART OF CHOCOLATE MAKING IS NO LONGER WHAT IT WAS A FEW DECADES AGO IT HAS FOR THE MOST PART PASSED FROM SMALL OPERATORS INTO THE HANDS OF LARGE MANUFACTURERS A SHORT HISTORICAL RESUM WILL SERVE AS A SKETCH OF THIS DEVELOPMENT AND A CURSORY DESCRIPTION OF SOME FORMS OF APPARATUS WHICH HAVE NOW MERELY HISTORICAL INTEREST WILL SERVE TO SHOW HOW IMPROVEMENT IN THE INDUSTRY HAS BEEN FEFECTED

THE SUCCESS STORY OF COCOA PROCESSING & CHOCOLATE MANUFACTURE IN GHANA

2002

COCOA AND CHOCOLATE THEIR HISTORY FROM PLANTATION TO CONSUMER THE INDUSTRY WITH WHICH THIS BOOK DEALS IS CHANGING SLOWLY FROM AN ART TO A SCIENCE IT IS IN A TRANSITION PERIOD IT IS ONE OF THE HUMOURS OF ANY LIVE INDUSTRY THAT IT IS ALWAYS IN A TRANSITION PERIOD THERE ARE MANY INDICATIONS OF SCIENTIFIC PROGRESS IN CACAO CULTIVATION AND NOW THAT IN ADDITION TO THE EXPERIMENTAL AND RESEARCH DEPARTMENTS ATTACHED TO THE PRINCIPAL FIRMS A RESEARCH ASSOCIATION HAS BEEN FORMED FOR THE COCOA AND CHOCOLATE INDUSTRY THE INCREASED AMOUNT OF DIFFUSED SCIENTIFIC KNOWLEDGE OF COCOA AND CHOCOLATE MANUFACTURE SHOULD GIVE RISE TO INTERESTING DEVELOPMENTS ALTHOUGH THERE ARE SEVERAL EXCELLENT SCIENTIFIC WORKS DEALING IN A DETAILED MANNER WITH THE CACAO BEAN AND ITS PRODUCTS FROM THE VARIOUS VIEW POINTS OF THE TECHNICIAN THERE IS NO COMPREHENSIVE MODERN WORK WRITTEN FOR THE GENERAL READER UNTIL THAT APPEARS I OFFER THIS LITTLE BOOK WHICH ATTEMPTS TO COVER LIGHTLY BUT ACCURATELY THE WHOLE GROUND INCLUDING THE HISTORY OF CACAO ITS CULTIVATION AND MANUFACTURE THIS IS A SMALL BOOK IN WHICH TO TREAT OF SO LARGE A SUBJECT AND TO AVOID PROLIXITY I HAVE HAD TO GENERALISE THIS IS A DANGEROUS PRACTICE FOR WHAT IS GAINED IN BREVITY IS TOO OFTEN LOST IN ACCURACY BREVITY MAY BE ALWAYS THE SOUL OF WIT IT IS RARELY THE BODY OF TRUTH THE EXPERT WILL FIND THAT I HAVE CONSIDERED HIM IN THAT I HAVE GIVEN ATTENTION TO RECENT DEVELOPMENTS AND IF I HAVE TALKED OF THE METHODS PECULIAR TO ONE PLACE AS THOUGH THEY APPLIED TO THE WHOLE WORLD I ASK HIM TO CONSIDER ME BY SUPPLYING THE INEVITABLE VARIATIONS AND EXCEPTIONS HIMSELF

SCIENCE AND TECHNOLOGY OF ENROBED AND FILLED CHOCOLATE, CONFECTIONERY AND BAKERY PRODUCTS

2009-06-26

CHOCOLATE IS CONSUMED BY PEOPLE OF ALL AGES IN ALL SEGMENTS OF SOCIETY THROUGHOUT THE WORLD HOWEVER RECENT CHANGES IN LEGISLATIVE FRAMEWORKS ENVIRONMENTAL CONCERNS AND INCREASING ATTENTION TOWARDS SUSTAINABILITY HAVE STIMULATED THE CHOCOLATE INDUSTRY TO RECONSIDER THEIR MANAGEMENT POLICY CURRENT BOOKS IN THE MARKET COVER CHOCOLATE MANUFACTURE WITHOUT TAKING INTO ACCOUNT SUSTAINABLE PRACTICES OF PRODUCTION CONSUMPTION AND MARKET ASPECTS TRENDS IN SUSTAINABLE CHOCOLATE PRODUCTION FILLS THIS KNOWLEDGE GAP BY COVERING ALL THE IMPORTANT ASPECTS OF CHOCOLATE INDUSTRY MANUFACTURE FUNCTIONALITY SUSTAINABILITY OF THE SUPPLY CHAIN COMMERCIALIZATION ASPECTS AND MARKET CHARACTERISTICS IN ONE REFERENCE STARTING WITH THE HEALTH OUTCOMES OF CHOCOLATE AND AN OVERVIEW OF ITS MANUFACTURE THE BOOK EXPLORES TECHNIQUES TO IMPROVE THE FUNCTIONALITY FLAVOR AND MICROSTRUCTURE OF CHOCOLATE AS WELL AS ITS ENVIRONMENTAL IMPACT THROUGH SUSTAINABLE PRACTICES AND SUPPLY CHAINS BY CONNECTING RESEARCH TO INDUSTRY AND CONSUMER INTERESTS THIS TEXT AIMS TO SUPPORT MEMBERS OF THE SCIENTIFIC COMMUNITY PROFESSIONALS AND ENTERPRISES WORKING TO DEVELOP A SUSTAINABLE CHOCOLATE SECTOR

Cocoa and Chocolate, 1765-1914

2003-09-02

KIT KAT TURKISH DELIGHT CREME EGG ROLO AND ALL GOLD THEY ARE ALL AS MUCH A PART OF BRITISH LIFE AS WERE THE COMPANIES THAT MADE THEM AND WHICH LED THE CHOCOLATE REVOLUTION IN THE NINETEENTH CENTURY ROWNTREE S FRY S CADBURY S MACKINTOSH AND TERRY S THIS BOOK CHARTS THE HISTORY OF CHOCOLATE MANUFACTURE MARKETING AND CONSUMPTION IN BRITAIN FROM ITS ORIGINS IN THE EIGHTEENTH CENTURY IT THEN DESCRIBES THE GOLDEN AGE FROM 1900 TO THE 1970S AND THE SUBSEQUENT US AND SWISS INVASIONS SPEARHEADED BY BRANDS SUCH AS MARS TOBLERONE AND NESTL? S MILKY BAR INCLUDING THE TAKEOVERS BY NESTLE AND KRAFT

MODERN METHODS OF COCOA AND CHOCOLATE MANUFACTURE

1930

FOOD SAFETY MANAGEMENT IN COCOA AND CHOCOLATE FOCUSES MAINLY ON INCOMING HAZARDS AND THEIR CONTROLS AT DIFFERENT STAGES OF PROCESSING AS WELL AS PREVENTION OF RECONTAMINATION DURING FURTHER PROCESSING DUE TO THE NATURE OF THE PRODUCTS LOW MOISTURE HIGH FAT SOME SPECIFICS NEED TO BE TAKEN INTO ACCOUNT IN ORDER TO ENSURE EFFICIENT AND SUCCESSFUL FOOD SAFETY MANAGEMENT THE RISKS ASSOCIATED WITH THESE PRODUCTS HAD BEEN RECOGNIZED BY EUROPEAN INDUSTRY ORGANIZATIONS FOR CHOCOLATE CONFECTIONERY AND BISCUITS IN THE 1990S THE IOCCC PUBLISHED TWO CODES OF PRACTICE ONE BASED ON THE HACCP AND ONE FOR SPECIFIC GMPS FOR THE COCOA CHOCOLATE AND CONFECTIONERY INDUSTRY CAOBISCO BROCHURES AVAILABLE FROM CAOBISCO ASSOCIATION OF CHOCOLATE BISCUIT AND CONFECTIONERY INDUSTRY OF THE EU ACCESSED 02 06 11 THE MICROBIOLOGICAL SAFETY OF CHOCOLATE PRODUCTS CAN BE ENSURED BY CONSEQUENT APPLICATION OF THE HACCP CONCEPT AND ADHERENCE TO PREREQUISITE PROGRAMS TO ENSURE GOOD MANUFACTURING AND AGRICULTURAL PRACTICES THROUGHOUT THE WHOLE PROCESSING CHAIN THIS INCLUDES NOT ONLY THE FINAL PROCESSING STEPS OF MAKING CHOCOLATE BUT STARTS AT THE LEVEL AND SOURCING OF RAW AGRICULTURAL MATERIALS USED IN CHOCOLATE MAKING LIKE COCOA AND NUTS MICROBIAL DATA CAN PLAY AN IMPORTANT ROLE IN THE VERIFICATION OF IMPLEMENTED CONTROLS BUT THEIR VALIDITY AND LIMITATIONS NEED TO BE UNDERSTOOD KVENBERG J E SCHWALM D J 2000 USE OF MICROBIAL DATA FOR HAZARD ANALYSIS AND CRITICAL CONTROL POINT VALIDATION PROSPECTIVE J FOOD PROT 63 6 810 814 SWANSON K M J ANDERSON J E 2000 INDUSTRY PERSPECTIVE ON THE USE OF MICROBIAL DATA FOR HAZARD ANALYSIS AND CRITICAL CONTROL POINT VALIDATION AND VERIFICATION J FOOD PROT 63 6 815 818 KORNACKI J L 2006 MICROBIOLOGICAL SAMPLING IN THE DRY FOODS PROCESSING ENVIRONMENT FOOD SAFETY MAG PP 66

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