

FREE EPUB ANALYSIS OF FGD GYPSUM VGB (PDF)

COMPARISON OF NATURAL GYPSUM AND FGD GYPSUM FLUE GAS DESULFURIZATION AND INDUSTRIAL MINERALS ACID PRECIPITATION POWER GENERATION FROM SOLID FUELS OFF-GAS PURIFICATION DESULPHURISATION 3 PAPER PROCEEDINGS SUSTAINABLE CONCRETE CONSTRUCTION ASME TECHNICAL PAPERS ADVANCED MINERALOGY ULLMANN'S ENCYCLOPEDIA OF INDUSTRIAL CHEMISTRY MANAGING COAL COMBUSTION RESIDUES IN MINES PROPERTIES OF FRESH AND HARDENED CONCRETE CONTAINING SUPPLEMENTARY CEMENTITIOUS MATERIALS MECHANICAL ENGINEERING TRANSACTIONS APPLICATIONS FOR COAL-USE RESIDUES HOST BIBLIOGRAPHIC RECORD FOR BOUNDWITH ITEM BARCODE 30112033097202 AND OTHERS FUEL STRATEGIES COAL ABSTRACTS HANDBOOK OF EXTRACTIVE METALLURGY BULK SOLIDS HANDLING PROCESS AND CHEMICAL ENGINEERING DEVELOPMENTS IN FGD BAUCHEMIE INDO GERMAN POWER PLANT SEMINAR HANDBOOK OF CLEAN ENERGY SYSTEMS, 6 VOLUME SET URJA ENVIRONMENTALLY ORIENTED MODERNIZATION OF POWER BOILERS THE POLITICS OF ENVIRONMENT AND ACID RAIN IN THE FEDERAL REPUBLIC OF GERMANY COAL COMBUSTION BYPRODUCTS AND ENVIRONMENTAL ISSUES PROCEEDINGS ... ANNUAL MEETING ENCLAIR '86, ENERGY AND CLEANER AIR PROCEEDINGS OF THE THIRD SYMPOSIUM PROCEEDINGS ... ANNUAL PITTSBURGH COAL CONFERENCE FOSSIL ENERGY UPDATE WORLD TRANSLATIONS INDEX BRITISH REPORTS, TRANSLATIONS AND THESES IMPROVING EXISTING POWER STATIONS TO COMPLY WITH EMERGING EMISSIONS STANDARDS SULPHUR DIOXIDE AND NITROGEN OXIDES IN INDUSTRIAL WASTE GASES ACTAS

COMPARISON OF NATURAL GYPSUM AND FGD GYPSUM 1990 CONTAINS 4 101 REFERENCES ON FGD FLUE GAS DESULFURIZATION PRIMARILY FROM 1982 THROUGH JUNE 1993 COMPLEMENTS THE FLUE GAS DESULFURIZATION AND DENITRIFICATION BIBLIOGRAPHY PUBLISHED BY THE U S DEPT OF ENERGY IN JAN 1985 REFERENCES WERE LOCATED ON THE ENERGY SCIENCE AND TECHNOLOGY POLLUTION ABSTRACTS AND ENVIRONMENTAL BIBLIOGRAPHY DATABASES PRIMARILY COVERS FGD AND THE USE OF INDUSTRIAL MINERALS IN THE DESULFURIZATION PROCESS OR IN BY PRODUCT UTILIZATION AND DISPOSAL EMPHASIZES POST COMBUSTION REMOVAL OF SULFUR DIOXIDE THROUGH PROCESSES SUCH AS IN DUCT INJECTION AND WET AND DRY SCRUBBING

FLUE GAS DESULFURIZATION AND INDUSTRIAL MINERALS 1993 POWER GENERATION FROM SOLID FUELS INTRODUCES THE DIFFERENT TECHNOLOGIES TO PRODUCE HEAT AND POWER FROM SOLID FOSSIL HARD COAL BROWN COAL AND RENEWABLE BIOMASS WASTE FUELS SUCH AS COMBUSTION AND GASIFICATION STEAM POWER PLANTS AND COMBINED CYCLES ETC THE BOOK DISCUSSES TECHNOLOGIES WITH REGARD TO THEIR EFFICIENCY EMISSIONS OPERATIONAL BEHAVIOR RESIDUES AND COSTS BESIDES PROVEN STATE OF THE ART PROCESSES THE FOCUS IS ON THE POTENTIAL OF NEW TECHNOLOGIES CURRENTLY UNDER DEVELOPMENT OR DEMONSTRATION THE MAIN MOTIVATION OF THE BOOK IS TO EXPLAIN THE TECHNICAL POSSIBILITIES FOR REDUCING CO₂ EMISSIONS FROM SOLID FUELS THE STRATEGIES WHICH ARE TREATED ARE MORE EFFICIENT POWER AND HEAT GENERATION TECHNOLOGIES PROCESSES FOR THE UTILISATION OF RENEWABLE SOLID FUELS SUCH AS BIOMASS AND WASTE AND TECHNOLOGIES FOR CARBON CAPTURE AND STORAGE POWER GENERATION FROM SOLID FUELS PROVIDES BOTH TO ACADEMIA AND INDUSTRY A CONCISE TREATMENT OF INDUSTRIAL COMBUSTION OF ALL TYPES OF SOLID HOPEFULLY INSPIRING THE NEXT GENERATION OF ENGINEERS AND SCIENTISTS

ACID PRECIPITATION 1989 WHEN DOING IN THE OFF GAS PURIFICATION BUSINESS YOU WILL PRETTY SOON REGISTER THAT YOU DO NOT ACT IN AN ISOLATED BOX YOU HAVE TO MAKE YOURSELF FAMILIAR WITH THE INTERPLAY OF YOUR EMISSION PROBLEM AND THE ENVIRONMENT AND YOU HAVE TO APPLY A BROAD VIEW OF THE SUBJECT WE CAN HARDLY MAKE A FORECAST ON YOUR FIRST STEPS IN THIS BUSINESS EXCEPT THAT WE WANT YOU TO SUCCEED THEREFORE WE WANT TO OFFER ENGINEERS AND GRADUATE STUDENTS THE BASIC TOOLS FOR DISCUSSING AIR POLLUTION PROBLEMS AND FOR DEDUCING STRATEGIES FOR PROCESS AND EQUIPMENT DESIGN IN OFF GAS PURIFICATION COVERING THE WHOLE SPAN FROM THE BASICS TO DEDUSTING ABSORPTION ADSORPTION AND REDOX PROCESSES THE DIDACTIC CONCEPT OF THE WORK IS TO ATTRACT STUDENTS WITH A LEARNING BY DOING STRATEGY WE DISCUSS THE PROBLEMS THE SOLVER STRATEGIES AND THE SOLVERS THE PROBLEM SOLVER PROPOSALS ADDRESS A MULTITUDE OF POLLUTION CONTROL TECHNOLOGIES THE WORK IS A COMPACT OFF GAS PURIFICATION GUIDE FOR PRACTITIONERS AND STUDENTS BY PRESENTING BASICS AS WELL AS NUMEROUS APPLICATIONS WITH MANY EXAMPLES AND PROBLEMS WITH SOLUTIONS

POWER GENERATION FROM SOLID FUELS 2010-03-18 THIS WORK PRESENTS PROCEEDINGS FROM A CONFERENCE HELD IN SHEFFIELD IN MARCH 1993 CONTENTS INCLUDE THE REDUCTION OF SULPHUR EMISSION A REVIEW OF THE DRAX FGD PROJECTS ABSORPTION OF SULPHUR IN FLUE GASES BY SEAWATER MANAGEMENT OF FGD RESIDUES DISPOSAL OR UTILIZATION

OFF-GAS PURIFICATION 2023-06-06 THIS VOLUME OF ADVANCED MINERALOGY ENCOMPASSES SIX DIFFERENT AREAS HAVING TWO FEATURES IN COMMON THEY ARE RELATED TO ONE OF THE LARGEST ENTERPRISES OF THE SECOND HALF OF THIS CENTURY AND REPRESENT THE ULTIMATE AND FINAL EXTENSION OF THE CONCEPT OF MINERAL MATTER UNDERSTANDING MINERAL MATTER IN SPACE IS ONE OF THE PRINCIPAL PURPOSES OF COSMIC EXPLORATION THIS INCLUDES THE RESULTS OF COMPARATIVE PLANETOLOGY LUNAR EPOPEE SOPHISTICATED METEORITE STUDIES NOW MORE THAN 500 METEORITE MINERALS DISCOVERY OF THE INTERSTELLAR MINERAL DUST FORMING SOME 60 TRILLION OF EARTH MASSES IN THE GALAXY AND TERRESTRIAL IMPACT CRATER STUDIES IT IS POSSIBLE NOW TO SPEAK OF MINERALOGY OF THE UNIVERSUM AND THE MINERALOGICAL TYPE OF THE STATES OF MATTER IN THE UNIVERSE DIRECT SAMPLES OF MANTLE XENOLITHS AND ULTRAHIGH PRESSURE TEMPERATURE EXPERIMENTS MAKE IT POSSIBLE TO CONSIDER THE MINERALOGICAL COMPOSITION OF THE EARTH AS A WHOLE INCLUDING THE UPPER AND LOWER MANTLE AND THE EARTH'S CORE DEEP OCEAN DRILLING PROGRAMS A SCIENTIFIC FLEET OF HUNDREDS OF VESSELS AND SEVERAL SUBMERSIBLES HAVE BROUGHT ABOUT GREAT DISCOVERIES IN THE GEOLOGY METALOGY AND MINERALOGY OF THE OCEAN FLOOR THE LARGEST PART OF THE EARTH'S SURFACE IN PARTICULAR REVEALING NEW GENETIC CRYSTALLOCHEMICAL AND ORE TYPES OF MINERAL FORMATION

DESULPHURISATION 3 1993 BURNING COAL IN ELECTRIC UTILITY PLANTS PRODUCES IN ADDITION TO POWER RESIDUES THAT CONTAIN CONSTITUENTS WHICH MAY BE HARMFUL TO THE ENVIRONMENT THE MANAGEMENT OF LARGE VOLUMES OF COAL COMBUSTION RESIDUES CCRS IS A CHALLENGE FOR UTILITIES BECAUSE THEY MUST EITHER PLACE THE CCRS IN LANDFILLS SURFACE IMPOUNDMENTS OR MINES OR FIND ALTERNATIVE USES FOR THE MATERIAL THIS STUDY FOCUSES ON THE

PLACEMENT OF CCRS IN ACTIVE AND ABANDONED COAL MINES THE COMMITTEE BELIEVES THAT PLACEMENT OF CCRS IN MINES AS PART OF THE RECLAMATION PROCESS MAY BE A VIABLE OPTION FOR THE DISPOSAL OF THIS MATERIAL AS LONG AS THE PLACEMENT IS PROPERLY PLANNED AND CARRIED OUT IN A MANNER THAT AVOIDS SIGNIFICANT ADVERSE ENVIRONMENTAL AND HEALTH IMPACTS THIS REPORT DISCUSSES A VARIETY OF STEPS THAT ARE INVOLVED IN PLANNING AND MANAGING THE USE OF CCRS AS MINEFILLS INCLUDING AN INTEGRATED PROCESS OF CCR CHARACTERIZATION AND SITE CHARACTERIZATION MANAGEMENT AND ENGINEERING DESIGN OF PLACEMENT ACTIVITIES AND DESIGN AND IMPLEMENTATION OF MONITORING TO REDUCE THE RISK OF CONTAMINATION MOVING FROM THE MINE SITE TO THE AMBIENT ENVIRONMENT ENFORCEABLE FEDERAL STANDARDS ARE NEEDED FOR THE DISPOSAL OF CCRS IN MINEFILLS TO ENSURE THAT STATES HAVE ADEQUATE EXPLICIT AUTHORITY AND THAT THEY IMPLEMENT MINIMUM SAFEGUARDS

PAPER 1994 THIS VOLUME REPRESENTS THE CURRENT KNOWLEDGE ON THE EFFECT OF SCMS SLAG FLY ASH SILICA FUME LIMESTONE POWDER METAKAOLIN NATURAL POZZOLANS RICE HUSK ASH SPECIAL SCMS TERNARY BLENDS ON THE PROPERTIES OF FRESH AND HARDENED CONCRETE E G EARLY STRENGTH DEVELOPMENT WORKABILITY SHRINKAGE AND CURING REQUIREMENTS OTHER TOPICS TREATED IN THE BOOK ARE POSTBLENDING VS PREBLENDING IMPLICATIONS OF SCM VARIABILITY INTERACTION BETWEEN SCM AND COMMONLY USED ADMIXTURES E G SUPERPLASTICIZERS AIR ENTRAINERS

PROCEEDINGS 1997 EXTRACT ALL THE METALS INFORMATION YOU NEED A WEALTH OF DATA ON METALS AND THEIR EXTRACTION IS REVEALED IN THIS COMPREHENSIVE HANDBOOK THE AIM OF THIS BOOK IS TO PROVIDE A CLEAR DESCRIPTION OF HOW A PARTICULAR METAL IS EXTRACTED INDUSTRIALLY FROM DIFFERENT RAW MATERIALS AND ON WHAT ITS IMPORTANT COMPOUNDS ARE THE PRESENT WORK IS A COLLECTION OF 58 ARTICLES WRITTEN BY OVER 280 SPECIALISTS IT SUPPLIES THOUSANDS OF TOP QUALITY ILLUSTRATIONS DIAGRAMS AND CHARTS AND PROVIDES HAND PICKED REFERENCES ENSURING THE MOST UP TO DATE COVERAGE A UNIQUE FEATURE OF THIS REFERENCE WORK IS ITS STRUCTURE THE SYSTEM USED HERE IS ACCORDING TO AN ECONOMIC CLASSIFICATION WHICH REFLECTS MAINLY THE USES OCCURRENCE AND ECONOMIC VALUE OF METALS FIRST THE FERROUS METALS I E THOSE USED IN THE PRODUCTION OF IRON AND STEEL ARE OUTLINED THEN NONFERROUS METALS ARE SUBDIVIDED INTO PRIMARY SECONDARY LIGHT PRECIOUS REFRACTORY SCATTERED RADIOACTIVE RARE EARTH FERROALLOY METALS AND FINALLY THE ALKALI AND THE ALKALINE EARTH METALS ARE DESCRIBED THE HANDBOOK IS AN ESSENTIAL AID FOR THE PRACTISING METALLURGIST MINING ENGINEERS MINERALOGISTS CHEMICAL ENGINEERS CHEMISTS AND GEOLOGISTS WILL FIND IT A COMPREHENSIVE DESK REFERENCE IT IS OF INTEREST TO ENGINEERS AND SCIENTISTS IN INDUSTRY SEEKING AN EXHAUSTIVE SOURCEBOOK AND IT SHOULD BE PRESENT IN EVERY LIBRARY

SUSTAINABLE CONCRETE CONSTRUCTION 2002 DAS BUCH IST NICHT NUR FÜR DEN STUDIENANFÄNGER EINE WERTVOLLE HILFE DEN ANFORDERUNGEN EINES REGELSTUDIENGANGES BAUINGENIEURWESEN ODER ARCHITEKTUR ZU ENTSPRECHEN ES DIENT AUCH DEM BAUPRAKTIKER ALS NÜTZLICHES NACHSCHLAGEWERK NEBEN DEN GRUNDLAGEN VERMITTELT DER AUTOR SPEZIELLE CHEMISCHE KENNTNISSE ZU BAUSTOFFEN UND BAURELEVANTEN PROZESSEN VERSTÄNDLICH UND METHODISCH AUSGEWOGEN DABEI ORIENTIERT SICH DIE EXEMPLARISCH VORGENOMMENE AUSWAHL VON VERBINDUNGEN STOFFEN REAKTIONEN UND PROZESSEN AN DEREN PRAXISRELEVANZ FÜR DAS BAUWESEN UNTER BERÜCKSICHTIGUNG MODERNER ÖKOLOGISCHER GESICHTSPUNKTE DAS WERK BASIERT AUF LANGJÄHRIGEN LEHRERFAHRUNGEN IN DER HOCHSCHULAUSBILDUNG VON BAUINGENIEURSTUDENTEN UND HEBT SICH DEUTLICH VON EINER NUR CHEMISCH KOMMENTIERTEN BAUSTOFFLEHRE AB ES KANN SOWOHL ALS VORLESUNGSBEGLEITENDES LEHRMATERIAL ALS AUCH IM SELBSTSTUDIUM UND IM RAHMEN EINER WEITERBILDUNG EINGESETZT WERDEN

ASME TECHNICAL PAPERS 2013-03-07 THE HANDBOOK OF CLEAN ENERGY SYSTEMS BRINGS TOGETHER AN INTERNATIONAL TEAM OF EXPERTS TO PRESENT A COMPREHENSIVE OVERVIEW OF THE LATEST RESEARCH DEVELOPMENTS AND PRACTICAL APPLICATIONS THROUGHOUT ALL AREAS OF CLEAN ENERGY SYSTEMS CONSOLIDATING INFORMATION WHICH IS CURRENTLY SCATTERED ACROSS A WIDE VARIETY OF LITERATURE SOURCES THE HANDBOOK COVERS A BROAD RANGE OF TOPICS IN THIS INTERDISCIPLINARY RESEARCH FIELD INCLUDING BOTH FOSSIL AND RENEWABLE ENERGY SYSTEMS THE DEVELOPMENT OF INTELLIGENT ENERGY SYSTEMS FOR EFFICIENT ENERGY PROCESSES AND MITIGATION TECHNOLOGIES FOR THE REDUCTION OF ENVIRONMENTAL POLLUTANTS IS EXPLORED IN DEPTH AND ENVIRONMENTAL SOCIAL AND ECONOMIC IMPACTS ARE ALSO ADDRESSED TOPICS COVERED INCLUDE VOLUME 1 RENEWABLE ENERGY BIOMASS RESOURCES AND BIOFUEL PRODUCTION BIOENERGY UTILIZATION SOLAR ENERGY WIND ENERGY GEOTHERMAL ENERGY TIDAL ENERGY VOLUME 2 CLEAN ENERGY CONVERSION TECHNOLOGIES STEAM VAPOR POWER GENERATION GAS TURBINES POWER GENERATION RECIPROCATING ENGINES FUEL CELLS COGENERATION AND POLYGENERATION VOLUME 3 MITIGATION TECHNOLOGIES CARBON CAPTURE NEGATIVE EMISSIONS SYSTEM CARBON TRANSPORTATION CARBON STORAGE EMISSION MITIGATION TECHNOLOGIES EFFICIENCY IMPROVEMENTS AND WASTE MANAGEMENT WASTE TO ENERGY VOLUME 4 INTELLIGENT ENERGY SYSTEMS FUTURE ELECTRICITY MARKETS

DIAGNOSTIC AND CONTROL OF ENERGY SYSTEMS NEW ELECTRIC TRANSMISSION SYSTEMS SMART GRID AND MODERN ELECTRICAL SYSTEMS ENERGY EFFICIENCY OF MUNICIPAL ENERGY SYSTEMS ENERGY EFFICIENCY OF INDUSTRIAL ENERGY SYSTEMS CONSUMER BEHAVIORS LOAD CONTROL AND MANAGEMENT ELECTRIC CAR AND HYBRID CAR ENERGY EFFICIENCY IMPROVEMENT VOLUME 5 ENERGY STORAGE THERMAL ENERGY STORAGE CHEMICAL STORAGE MECHANICAL STORAGE ELECTROCHEMICAL STORAGE INTEGRATED STORAGE SYSTEMS VOLUME 6 SUSTAINABILITY OF ENERGY SYSTEMS SUSTAINABILITY INDICATORS EVALUATION CRITERIA AND REPORTING REGULATION AND POLICY FINANCE AND INVESTMENT EMISSION TRADING MODELING AND ANALYSIS OF ENERGY SYSTEMS ENERGY VS DEVELOPMENT LOW CARBON ECONOMY ENERGY EFFICIENCIES AND EMISSION REDUCTION KEY FEATURES COMPRISING OVER 3 500 PAGES IN 6 VOLUMES HCES PRESENTS A COMPREHENSIVE OVERVIEW OF THE LATEST RESEARCH DEVELOPMENTS AND PRACTICAL APPLICATIONS THROUGHOUT ALL AREAS OF CLEAN ENERGY SYSTEMS CONSOLIDATING A WEALTH OF INFORMATION WHICH IS CURRENTLY SCATTERED ACROSS A WIDE VARIETY OF LITERATURE SOURCES IN ADDITION TO RENEWABLE ENERGY SYSTEMS HCES ALSO COVERS PROCESSES FOR THE EFFICIENT AND CLEAN CONVERSION OF TRADITIONAL FUELS SUCH AS COAL OIL AND GAS ENERGY STORAGE SYSTEMS MITIGATION TECHNOLOGIES FOR THE REDUCTION OF ENVIRONMENTAL POLLUTANTS AND THE DEVELOPMENT OF INTELLIGENT ENERGY SYSTEMS ENVIRONMENTAL SOCIAL AND ECONOMIC IMPACTS OF ENERGY SYSTEMS ARE ALSO ADDRESSED IN DEPTH PUBLISHED IN FULL COLOUR THROUGHOUT FULLY INDEXED WITH CROSS REFERENCING WITHIN AND BETWEEN ALL SIX VOLUMES EDITED BY LEADING RESEARCHERS FROM ACADEMIA AND INDUSTRY WHO ARE INTERNATIONALLY RENOWNED AND ACTIVE IN THEIR RESPECTIVE FIELDS PUBLISHED IN PRINT AND ONLINE THE ONLINE VERSION IS A SINGLE PUBLICATION I E NO UPDATES AVAILABLE FOR ONE TIME PURCHASE OR THROUGH ANNUAL SUBSCRIPTION

ADVANCED MINERALOGY 2003 ENVIRONMENTALLY ORIENTED MODERNIZATION OF POWER BOILERS EXPLAINS HOW TO RETROFIT AND UPGRADE POWER BOILERS IN AGING THERMAL AND CHP PLANTS WITH EMPHASIS ON PULVERIZED FUEL BOILERS PF THE WORK PROVIDES DIRECT AVENUES TO HIGHER BOILER EFFICIENCY HARMFUL EMISSIONS REDUCTION FUEL GRINDING SYSTEM MODERNIZATION FUEL FLEXIBILITY BOILER OPERATION FLEXIBILIZATION REDUCED CORROSION EROSION AND FOULING IT ALSO EXPLORES HOW TO INTEGRATE EMISSION REDUCTION SYSTEMS INTO BOILER OPERATIONS THE WORK IS PLANNED FOR ENGINEERS AND GRADUATE STUDENTS AS WELL AS FOR POWER PLANT MANAGEMENT FOR THE LATTER IT HELPS FIND THE BEST SOLUTION FOR THE NECESSARY MODERNIZATION AND FUNCTIONS AS AN AID IN ORGANIZING TENDERS AS WELL AS IN EVALUATING PROJECTS OFFERED ERRATA TO PUBLISHED EDITIONS CAN BE FOUND HERE MODERNPOWERBOILERS.ORG ERRATA HTML PRESENTS IN A CLEAR AND ACCESSIBLE WAY THE MOST IMPORTANT SOLUTIONS RELATED TO BOILER EMISSIONS REDUCTION INCLUDING CO₂ EMISSIONS HELPS INCREASE BOILER EFFICIENCY THROUGH TECHNICAL AND OPERATIONAL UPGRADES HELPS INCREASE THE USEFULNESS OF BOILERS BY INCREASING FUEL AND OPERATIONAL FLEXIBILITY SUPPORTS REDUCTION OF HARMFUL PHENOMENA SUCH AS CORROSION EROSION AND FOULING ACCOMPANIED WITH A CAREFUL SELECTION OF REALIZED MODERNIZATIONS INCLUDING PITFALLS AND BEST PRACTICE DISCUSSION CHAPTERS ARE PRESENTED ALONGSIDE HUNDREDS OF LITERATURE REFERENCES FOR FURTHER STUDY

ULLMANN'S ENCYCLOPEDIA OF INDUSTRIAL CHEMISTRY 2006-08-14 COAL COMBUSTION BYPRODUCTS AND ENVIRONMENTAL ISSUES ADDRESSES THE MAJOR IMPLICATIONS AND CRITICAL ISSUES SURROUNDING COAL COMBUSTION PRODUCTS AND THEIR IMPACT UPON THE ENVIRONMENT IT PROVIDES ESSENTIAL INFORMATION FOR SCIENTISTS CONDUCTING RESEARCH ON COAL AND COAL COMBUSTION PRODUCTS BUT ALSO SERVES AS A VALUABLE REFERENCE FOR A WIDE VARIETY OF RESEARCHERS AND OTHER PROFESSIONALS IN THE ENERGY INDUSTRY AND IN THE FIELDS OF PUBLIC HEALTH ENGINEERING AND ENVIRONMENTAL SCIENCES THE ULTIMATE GOAL OF THIS VOLUME IS TO BENEFIT BOTH OUR ECONOMY AND OUR ENVIRONMENT AS HUMANITY ENTERS THE SECOND HALF OF THE FOSSIL FUEL ERA

MANAGING COAL COMBUSTION RESIDUES IN MINES 2017-12-09 D VAN VELZEN COMMISSION OF THE EUROPEAN COMMUNITIES JOINT RESEARCH CENTRE ISpra ENVIRONMENT INSTITUTE 1 21020 ISpra VARESE ITAL Y 1 INTRODUCTION WORLDWIDE THERE IS AN EVER INCREASING INTEREST AND CONCERN ABOUT THE DESTRUCTIVE EFFECTS OF AIR POLLUTION ON MAN S ECOSYSTEM THE GROWING AWARENESS OF THESE EFFECTS HAS REVEALED THE NEED TO TAKE ADEQUATE MEASURES TO MINIMIZE THE EMISSION OF AIR POLLUTING PRODUCTS THE TWO MOST IMPORTANT CONTAMINANTS OCCURRING IN THE LARGEST CONCENTRATIONS AND QUANTITIES ARE SULPHUR DIOXIDE AND NITROGEN OXIDES BOTH POLLUTANTS ARE FORMED MAINLY DURING THE COMBUSTION OF FOSSIL FUELS PARTICULARLY BY POWER STATIONS AND TRAFFIC THE EFFECTS OF AIR POLLUTION CAUSED BY THESE TWO CONTAMINANTS HAVE ALREADY BEEN STUDIED FOR SEVERAL DECADES AND MEASURES TO PROTECT THE ENVIRONMENT AGAINST THEIR ADVERSE EFFECTS ARE NOW OPERATIVE IN MANY COUNTRIES THE PRESENT VOLUME CONTAINS THE PROCEEDINGS OF A EURO COURSE HELD IN ISpra IN SEPTEMBER 1990 THE COURSE WAS MEANT TO GIVE AN OVERVIEW OF PRESENT KNOWLEDGE CONCERNING THE

EMISSION SOURCES AND QUANTITIES TO COVER FEATURES OF PRESENT LEGISLATION AND TO GIVE A SURVEY OF THE MOST IMPORTANT MODERN ABATEMENT TECHNIQUES FOR SO₂ AND NO_x IT WAS MAINLY ADDRESSED TO HIGHER AND MEDIUM MANAGEMENT IN THE POWER CHEMICAL AND SIMILAR INDUSTRIES PARTICULARLY FROM THOSE COUNTRIES WHERE THE FIGHT AGAINST AIR POLLUTION IS STILL IN ITS INFANCY OBVIOUSLY IT WAS NOT POSSIBLE TO COVER COMPLETELY THE WHOLE RANGE OF SUBJECTS DURING THE LIMITED DURATION OF A EURO COURSE

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