

Free download Computer science an overview j glenn brookshear (PDF)

discourse of course comes after jan renkema s introduction to discourse studies 2004 for undergraduates the new book is a collection of twenty short papers it is a capita selecta course and meant for graduate programs the aim of this book is threefold to present material for advanced courses in discourse studies to unfold a stimulating display of research projects to future phd students to give an overview of new developments after the 2004 introduction to discourse studies this publication fulfills both the teacher s need for a state of the art overview of the main topics in discourse and the student s need to acquire standards for developing research plans in theses and dissertations it gives a combination of approaches from very different schools in discourse studies ranging from argumentation theory to genre theory from the study of multimodal metaphors to cognitive approaches to coherence analysis this book is not only meant to serve as a textbook but also as a reference book for researchers who want an update for various main topics in the field computer science an overview truly lives up to its title providing an introduction to the entire computer science discipline this broad coverage combined with clear explanations has made it the leading textbook for the breadth first cs0 course the text is unique in that it avoids presenting topics from the perspective of any particular programming language moreover the text communicates the dynamics of computer science by presenting topics in a historical perspective in which past developments the current state of the art and directions of research are discussed the result is a balanced realistic picture of computer science including such topics as programming languages operating systems algorithms software engineering networking database design artificial intelligence and machine architecture this seventh edition has been thoroughly updated to discuss important trends in such areas as networking and the internet software engineering and artificial intelligence topics added include open source development associative memory xml and c thought provoking discussions of ethical and legal issues revolving around computing are integrated into each chapter rather than being presented as separate isolated topics nowadays the innovation in space technologies creates a new trend for the earth observation and monitoring from space this book contains high quality and compressive work on both microwave and optical remote sensing applications this book is divided into five sections i remote sensing for biomass estimation ii remote sensing based glacier studies iii remote sensing for coastal and ocean applications iv sewage leaks and environment disasters and v remote sensing image processing each chapter offers an opportunity to expand the knowledge about various remote sensing techniques and persuade researchers to deliver new research novelty for environment studies all encompassing and expanded now covering the whole body lower quadrant plus upper quadrant and spine the comprehensive textbook of clinical biomechanics formerly biomechanics in clinic and research presents the latest research in a form which is accessible practical thorough and up to the minute starts from basic principles and builds up to complex concepts highly practical with a constant clinical emphasis written for all health care professionals including physiotherapists and podiatrists addition of upper quadrant and spine title has changed to truly reflect the resource s expanded and comprehensive approach case studies and additional clinical examples new methods in emg analysis updated elearning course which is compatible with tablet and mobile devices a global team of writers educational opportunities for pediatric residents and primary care providers that contribute to increased competence in pediatric dermatology are an important component of improving the quality and efficiency of dermatologic care provided to children and adolescents the 13 articles that comprise this issue have been selected to capture a significant proportion of the most common skindiseases that are seen in children and adolescents they are intended to provide practical information on diagnosis and initial management that can be performed by the primary care provider and to provide a framework for allowing for more active involvement by the primary care provider with regards to ongoing management of these conditions from atopic dermatitis to vitiligo the pediatric primary care provider is guaranteed to see these conditions in their practice nato advanced institute ottawa ontario

canada july 26 august 6 1982 this unique work compiles the latest knowledge around veterinary nutraceuticals commonly referred to as dietary supplements from ingredients to final products in a single source more than sixty chapters organized in seven sections collate all related aspects of nutraceutical research in animal health and disease among them many novel topics common nutraceutical ingredients section i prebiotics probiotics synbiotics enzymes and antibacterial alternatives section ii applications of nutraceuticals in prevention and treatment of various diseases such as arthritis periodontitis diabetes cognitive dysfunctions mastitis wounds immune disorders and cancer section iii utilization of nutraceuticals in specific animal species section iv safety and toxicity evaluation of nutraceuticals and functional foods section v recent trends in nutraceutical research and product development section vi as well as regulatory aspects for nutraceuticals section vii the future of nutraceuticals and functional foods in veterinary medicine seems bright as novel nutraceuticals will emerge and new uses of old agents will be discovered international contributors to this book cover a variety of specialties in veterinary medicine pharmacology pharmacognosy toxicology chemistry medicinal chemistry biochemistry physiology nutrition drug development regulatory frameworks and the nutraceutical industry this is a highly informative and carefully presented book providing scientific insight for academia veterinarians governmental and regulatory agencies with an interest in animal nutrition complementary veterinary medicine nutraceutical product development and research this book constitutes the proceedings of the 25th international conference on automated deduction cade 25 held in berlin germany in august 2015 the 36 revised full papers presented 24 full papers and 12 system descriptions were carefully reviewed and selected from 85 submissions cade is the major forum for the presentation of research in all aspects of automated deduction including foundations applications implementations and practical experience since the publication of the best selling first edition the growing price and environmental cost of energy have increased the significance of tribology handbook of lubrication and tribology volume ii theory and design second edition demonstrates how the principles of tribology can address cost savings energy conservation and environmental pr unmanned driving systems for smart trains explores the core technologies involved in unmanned driving systems for smart railways and trains from foundational theory to the latest advances the volume introduces the key technologies research results and frontiers of the field each chapter includes practical cases to ground theory in practice seven chapters cover key aspects of unmanned driving systems for smart trains including performance evaluation algorithm based reasoning and learning strategy main control parameters data mining and processing energy saving optimization and control and intelligent algorithm simulation platforms this book will help researchers find solutions in developing better unmanned driving systems responds to the expansion of smart railways and the adoption of unmanned global systems covers core technologies of unmanned driving systems for smart trains details a large number of case studies and experimental designs for unmanned railway systems adopts a multidisciplinary view where disciplines intersect at key points gives both foundational theory and the latest theoretical and practical advances for unmanned railways the handbook of school violence and school safety international research and practice has become the premier resource for educational and mental health professionals and policymakers seeking to implement effective prevention and intervention programs that reduce school violence and promote safe and effective schools it covers the full range of school violence and safety topics from harassment and bullying to promoting safe secure and peaceful schools it also examines existing school safety programs and includes the multi disciplinary research and theories that guide them examinations of current issues and projections of future research and practice are embedded within each chapter this volume maps the boundaries of this rapidly growing and multidisciplinary field of study key features include comprehensive coverage the chapters are divided into three parts foundations assessment and measurement prevention and intervention programs together they provide a comprehensive review of what is known about the types causes and effects of school violence and the most effective intervention programs that have been developed to prevent violence and promote safe and thriving school climates evidence based practice avoiding a one size fits all approach to prevention and intervention the focus throughout is on the application of evidence based practice to address factors most commonly associated with school violence and safety implications for practice each chapter bridges the research

to practice gap with a section delineating implications for practice of the foregoing research chapter structure to ensure continuity and coherence across the book each chapter begins with a brief abstract and ends with a table showing the implications for practice international focus acknowledging the fact that school violence and safety is a global concern this edition has increased its focus on insights learned from cross national research and practice outside the usa expertise the editors and authors are experienced researchers teachers practitioners and leaders in the school violence field their expertise includes their breadth and depth of knowledge and experience bridging research policy and practice and representing a variety of international organizations studying school violence around the world computer science an overview uses broad coverage and clear exposition to present a complete picture of the dynamic computer science field accessible to students from all backgrounds glenn brookshear uses a language independent context to encourage the development of a practical realistic understanding of the field an overview of each of the important areas of computer science e g networking os computer architecture algorithms provides students with a general level of proficiency for future courses the eleventh edition features two new contributing authors david smith indiana university of pa dennis brylow marquette university new modern examples and updated coverage based on current technology a need for a book on immunology which primarily focuses on the needs of medical and clinical research students was recognized this book immunosuppression role in health and diseases is relatively short and contains topics relevant to the understanding of human immune system and its role in health and diseases immunosuppression involves an act that reduces the activation or efficacy of the immune system therapeutic immunosuppression has applications in clinical medicine ranging from prevention and treatment of organ bone marrow transplant rejection management of autoimmune and inflammatory disorders it brings important developments both in the field of molecular mechanisms involved and active therapeutic approaches employed for immunosuppression in various human disease conditions there was a need to bring this information together in a single volume as much of the recent developments are dispersed throughout biomedical literature largely in specialized journals this book will serve well the practicing physicians surgeons and biomedical scientists as it provides an insight into various approaches to immunosuppression and reviews current developments in each area this book addresses the gap between innovative technologies and their adoption it showcases research feasibility studies and projects that demonstrate a variety of ways to implement environmental sustainability in globally operating firms as well as best practices in areas such as international management adoption of cleaner technologies global supply chains greenhouse gas emission reduction and transportation the book provides state of the art information on issues including global sustainable management practices global sustainable food and agricultural markets global responsible mining and energy global sustainable sourcing global sustainable transportation global conservation innovations and investments presenting expert contributions from industry government and academia discussing a variety of themes and perspectives on the topic international business as a positive force of environmental sustainability it is a vital resource for stakeholders in the international business community food waste to valuable resources applications and management compiles current information pertaining to food waste placing particular emphasis on the themes of food waste management biorefineries valuable specialty products and technoeconomic analysis following its introduction this book explores new valuable resource technologies the bioeconomy the technoeconomical evaluation of food waste based biorefineries and the policies and regulations related to a food waste based economy it is an ideal reference for researchers and industry professionals working in the areas of food waste valorization food science and technology food producers policymakers and ngos environmental technologists environmental engineers and students studying environmental engineering food science and more presents recent advances trends and challenges related to food waste valorization contains invaluable knowledge on of food waste management biorefineries valuable specialty products and technoeconomic analysis highlights modern advances and applications of food waste bioresources in various products recovery the oxford textbook of medicine cardiovascular disorders is selected from the cardiology section of the renowned oxford textbook of medicine an authoritative resource on heart disease and beautifully illustrated in full colour it is an essential guide to best practice in managing and preventing a wide variety of

cardiovascular disorders chapters on arrhythmias acute coronary syndromes and cardiac surgery have been completely revised and updated together with new chapters on blood vessels and the endothelium cardiac physiology syncope and palpitations and cardio renal syndrome heart failure and heart disease in pregnancy are thoroughly treated while imaging chapters evaluate the latest techniques and illustrate all clinical features with detailed images in 46 finely crafted chapters with clear essentials experts in cardiovascular disease review the essentials of diagnosis guidelines and practice and provide a wealth of practical advice for use in clinical situations in addition background information on epidemiology pathogenesis and pathophysiology encourages a fuller understanding of conditions and more than 350 full colour images help with diagnosis this essential reference tool supports all medical professionals seeking a general outline of treatment and prevention of cardiovascular disorders and fills the gap between undergraduate teaching texts and specialist texts for cardiologists cardiologists and general physicians will find it immensely valuable when diagnosing and managing heart disease in their day to day practice it is also of use for trainees in cardiology and general medicine especially those interested in applied cardiovascular pathophysiology a groundbreaking book on the application of the economic and environmentally effective treatment of industrial wastewater constructed wetlands for industrial wastewater treatment contains a review of the state of the art applications of constructed wetland technology for industrial wastewater treatment this green technology offers many economic environmental and societal advantages the text examines the many unique uses and the effectiveness of constructed wetlands for the treatment of complex and heavily polluted wastewater from various industrial sources the editor a noted expert in the field and the international author team 93 authors from 22 countries present vivid examples of the current state of constructed wetlands in the industrial sector the text is filled with international case studies and research outcomes and covers a wide range of applications of these sustainable systems including facilities such as the oil and gas industry agro industries paper mills pharmaceutical industry textile industry winery brewery sludge treatment and much more the book reviews the many system setups examines the different removal and or transformational processes of the various pollutants and explores the overall effectiveness of this burgeoning technology this important resource offers the first groundbreaking text on constructed wetlands use for industrial wastewater treatment provides a single reference with summarized information and the state of the art knowledge of the use of constructed wetlands in the industrial sector through case studies research outcomes and review chapters covers a range of industrial applications such as hydrocarbons oil and gas industry food and beverage wood and leather processing agro industries pharmaceuticals and many others includes best practices drawn by a collection of international case studies presents the latest technological developments in the industry written for civil and environmental engineers sustainable wastewater water managers in industry and government constructed wetlands for industrial wastewater treatment is the first book to offer a comprehensive review of the set up and effectiveness of constructed wetlands for a wide range of industrial applications to highlight the diverse economic and environmental benefits this technology brings to the industry the most trusted resource for psychiatry knowledge and techniques braddom's physical medicine and rehabilitation remains an essential guide for the entire rehabilitation team with proven science and comprehensive guidance this medical reference book addresses a range of topics to offer every patient maximum pain relief and optimal return to function in depth coverage of the indications for and limitations of axial and peripheral joints through therapies enables mastery of these techniques optimize the use of ultrasound in diagnosis and treatment a chapter covering pm r in the international community serves to broaden your perspective in the field detailed illustrations allow you to gain a clear visual understanding of important concepts new lead editor dr david cifu was selected by dr randall braddom to retain a consistent and readable format additional new authors and editors provide a fresh perspective to this edition features comprehensive coverage of the treatment of concussions and military amputees includes brand new information on rehabilitating wounded military personnel the latest injection techniques speech swallowing disorders head injury rehabilitation and the rehabilitation of chronic diseases new chapters on pelvic floor disorders and sensory impairments keep you at the forefront of the field reader friendly design features an updated table of contents and improved chapter approach for an enhanced user

experience expert consult ebook version included with purchase this enhanced ebook experience gives access to the text figures over 2 500 references 51 videos and 750 self assessment questions on a variety of devices lung transplantation principles and practice covers the current practice in donor and recipient management as well as current treatment strategies and outcomes with 39 chapters from international experts in the field the book is divided into four broad sections general topics donor management recipient management and outcome and the future of the second edition of the growing spine has been extensively revised to cover recent advances in knowledge and management the book is intended as a comprehensive one stop reference for specialists and health professionals who care for young children with spinal deformities in addition it will effectively help to standardize the care of these patients depending on the etiology children with spinal deformities are often cared for by multiple specialists including pediatricians pediatric orthopaedists or orthopaedic spine surgeons neurologists pediatric surgeons pediatric neurosurgeons oncologists and pulmonologists the multidisciplinary nature of care is reflected in the growing spine which will be of value for all involved practitioners rather than just orthopaedic specialists it will also be an ideal reference for nurses physical therapists and healthcare professionals in training who are usually unfamiliar with spinal deformities in children in the face of limited progress toward meeting millennium development goals or addressing climate change and resource degradation increasing attention turns to harnessing the entrepreneurial innovative managerial and financial capacities of business for improved social and environmental outcomes a more proactive role for business in sustainable development is especially pertinent in sub saharan africa which has been plagued by conflict and poverty but shows signs of a brighter future as the world's second fastest growing region the book considers how the socio economic context influences the objectives of social innovation and even our definition of what we mean by social innovation secondly the book aims to show how social innovation initiatives emerge and fare in context of the limited ability of many african countries to provide public goods and services this book describes the latest advances in systems biology in four plant based marine ecosystems seaweeds seagrasses microalgae and corals marine organisms that inhabit the oceanic environment experience a diverse range of environmental fluctuations anthropogenic stress and threats from invasive species and pathogens system biology integrates physiology genomics transcriptomics proteomics and metabolomics into numerical models and is emerging as an important approach to elucidate the functional adaptations of marine organisms to adverse environmental conditions this book focuses on how ecophysiology omics platforms their integration a systems biology perspective and next generation sequencing tools are being used to address the stress response of marine seaweeds seagrasses corals marine microbe diversity and micro and macroalgae corals bacterial interactions to global climate change and anthropogenic activities the contents of the book are of special interest to graduate and postgraduate marine biology students and marine biology researchers particularly those interested in marine ecology stress physiology of marine macrophytes corals phytoplankton and environmental microbiology this book would also be of interest to marine engineers engaged in the management and conservation of our valuable marine resources diseases and conditions in dentistry an evidence based reference is the ideal one stop guide for dentistry clinicians to keep at their side provides a quick reference for the busy clinician covering diseases and conditions in endodontics periodontics prosthodontics and restorative dentistry offers identically formatted chapters following the same clear and concise layout with detailed clinical cases and evidence based discussions features a companion website with additional clinical photographs radiographs and case notes nanotechnology and high end characterization techniques have highlighted the importance of the material choice for the success of tissue engineering a paradigm shift has been seen from conventional passive materials as scaffolds to smart multi functional materials that can mimic the complex intracellular milieu more effectively this book presents a detailed overview of the rationale involved in the choice of materials for regeneration of different tissues and the future directions in this fascinating area of materials science with specific chapters on regulatory challenges ethics tissue engineered medical products now in its eighth edition this book continues to provide a comprehensive accessible and up to date introduction to the dynamic field of computer science using a breadth first approach the table of contents and the text itself have been revised and expanded to reflect changes in the field including

the trend toward using and internet technology the evolution of objects and the important growth in the field of databases specifically chapter three from the previous edition has been expanded into two chapters chapter three will now only cover operating systems and the new chapter four will focus on networks and the internet anyone interested in gaining a thorough introduction to computer science bioethanol production from food crops sustainable sources interventions and challenges comprehensively covers the global scenario of ethanol production from both food and non food crops and other sources the book guides readers through the balancing of the debate on food vs fuel giving important insights into resource management and the environmental and economic impact of this balance between demands sections cover global bioethanol from food crops and forest resource bioethanol from bagasse and lignocellulosic wastes bioethanol from algae and economics and challenges presenting a multidisciplinary approach to this complex topic as biofuels continue to grow as a vital alternative energy source it is imperative that the proper balance is reached between resource protection and human survival this book provides important insights into achieving that balance presents technological interventions in ethanol production from plant biomass to food crops addresses food security issues arising from bioethanol production identifies development bottlenecks and areas where collaborative efforts can help develop more cost effective technology advancements in the field of information technology have transformed the way businesses interact with each other and their customers businesses now require customized products and services to reflect their constantly changing environment yet this results in cutting edge products with relatively short lifecycles innovative solutions for implementing global supply chains in emerging markets addresses the roles of knowledge management and information technology within emerging markets this forward thinking title explores the current trends in supply chain management knowledge acquisition and transfer mechanisms among supply chain partners and knowledge management paradigms this book is an invaluable resource for researchers business professionals and students business analysts and marketing professionals surgical management of esophageal disease is reviewed extensively in this important surgical clinics of north america issue articles include approach to patients with esophageal dysphagia esophageal motility disorders achalasia esophageal stricture and diverticula benign esophageal masses gastroesophageal disease barrett s esophagus preoperative evaluation of gerd surgical treatment of gerd endoscopic treatment of gerd paraesophageal hernia short esophagus reoperative antireflux surgery gerd after bariatric procedure minimally invasive esophagectomy for benign esophageal disease and more actinobacteria are well known producers of a vast array of secondary metabolites compared with actinobacteria from temperate habitats the community structure diversity biological activities and mechanisms of environmental adaptation of those actinobacteria in special and extreme environments are relatively unstudied and unclear and their functions and utilization are even less reported these actinobacteria are potential new sources of novel natural products and functions for exploitation in medicine agriculture and industry recent advances in cultivation dna sequencing technologies and omics methods have greatly contributed to the rapid advancement of our understanding of microbial diversity taxonomy function and they interactions with environment following the success of the research topic actinobacteria in special and extreme habitats diversity functional roles and environmental adaptations organized in 2015 we are happy to launch a second edition this research topic second edition comprising reviews and original articles highlights recent discoveries on rare actinobacterial diversity phylogenomics biological compounds ecological function and environmental adaptations of actinobacteria in special and extreme habitats and broadens our knowledge of actinobacterial diversity and their ecophysiological function every three years worldwide forensics experts gather at the interpol forensic science symposium to exchange ideas and discuss scientific advances in the field of forensic science and criminal justice drawn from contributions made at the latest gathering in lyon france interpol s forensic science review is a one source reference providing a comp this brief reviews contemporary research conducted in university and industry laboratories on thermal management in electrochemical energy storage systems capacitors and batteries that have been widely used as power sources in many practical applications such as automobiles hybrid transport renewable energy installations power backup and electronic devices placing a particular emphasis on supercapacitors the authors discuss how supercapacitors or

ultra capacitors are complementing and replacing batteries because of their faster power delivery longer life cycle and higher coulombic efficiency while providing higher energy density than conventional electrolytic capacitors recent advances in both macro and micro capacitor technologies are covered the work facilitates systematic understanding of thermal transport in such devices that can help develop better power management systems this comprehensive guide to mri of the pregnant patient presenting with fetal or maternal diseases provides a practical hands on approach to the use of state of the art mri techniques and the optimization of sequences it analyzes data obtained from maternal and fetal mri examinations reviews fast imaging techniques details pitfalls related to fetal mri and assesses methods for improving image resolution fetal pathological conditions and methods of prenatal mri diagnosis are discussed according to organ system and the literature is reviewed interpretation of findings and potential artifacts are thoroughly considered with the aid of numerous high quality illustrations the book will be a detailed resource for radiologists obstetricians neonatologists and geneticists as well as any other practitioner who wishes to gain an in depth understanding of fetal and maternal mri in addition it will serve as a reference source for technicians researchers and students as well as for any specialist who is planning to set up a fetal and maternal mri service anaphylaxis has usually been studied and understood from an immunological view and the main lethal effects involve the cardio vascular system despite exhaustive efforts exerted in this area of research much more investigation is needed to mitigate recognize or prevent this disease the scope of this research topic is to present and discuss the current knowledge of anaphylaxis from the clinic to the underlying molecular mechanisms we are thankful to the medical doctors researchers and colleagues who have contributed to this issue as it would not have been possible without their highly valuable expertise in allergy and anaphylaxis research the concise garland encyclopedia of world music comprises two volumes and can only be purchased as the two volume set to purchase the set please go to routledge.com/9780415972932 this volume collects ten surveys on the modeling simulation and applications of active particles using methods ranging from mathematical kinetic theory to nonequilibrium statistical mechanics the contributing authors are leading experts working in this challenging field and each of their chapters provides a review of the most recent results in their areas and looks ahead to future research directions the approaches to studying active matter are presented here from many different perspectives such as individual based models evolutionary games brownian motion and continuum theories as well as various combinations of these applications covered include biological network formation and network theory opinion formation and social systems control theory of sparse systems theory and applications of mean field games population learning dynamics of flocking systems vehicular traffic flow and stochastic particles and mean field approximation mathematicians and other members of the scientific community interested in active matter and its many applications will find this volume to be a timely authoritative and valuable resource the exponential growth of clinical psychology since the late 1960s can be measured in part by the extensive literature on the subject the field has come to be defined as much by its many topics as its many voices the oxford handbook of clinical psychology synthesizes these decades of literature in one volume in addition to core sections on topics such as training assessment diagnosis and intervention the handbook includes chapters devoted to emerging issues in the clinical field including health care reforms cultural factors and technological innovations and challenges each chapter offers a review of the most pertinent literature outlining issues and identifying possibilities for future research now in its seventh edition this highly regarded book is designed as an introductory and reference text on the principles of diagnosis staging and treatment of tumors as for the last 6 editions of the book the aim and scope of the new edition are once again to provide a thorough yet reasonably brief account of the whole field of oncology focusing on the latest principles of cancer management the book is already well established having been first published in 1986 and in continuous print since then the authors are rightfully proud of their strong legacy of providing carefully revised new editions of this standard and well received cancer text for audiences in the uk and abroad oncology is a very rapidly changing speciality with many new treatments and even treatment modalities coming on stream with bewildering speed besides a thorough general updating of the text figures and tables the new seventh edition adds a new chapter on molecular targeted therapy making the book 30 chapters in total this

accessible and practical resource is invaluable to trainees and specialists alike in oncology palliative care and general medicine as well as specialist nurses general practitioners medical students and professions allied to medicine

Discourse, of Course

2009

discourse of course comes after jan renkema s introduction to discourse studies 2004 for undergraduates the new book is a collection of twenty short papers it is a capita selecta course and meant for graduate programs the aim of this book is threefold to present material for advanced courses in discourse studies to unfold a stimulating display of research projects to future phd students to give an overview of new developments after the 2004 introduction to discourse studies this publication fulfills both the teacher s need for a state of the art overview of the main topics in discourse and the student s need to acquire standards for developing research plans in theses and dissertations it gives a combination of approaches from very different schools in discourse studies ranging from argumentation theory to genre theory from the study of multimodal metaphors to cognitive approaches to coherence analysis this book is not only meant to serve as a textbook but also as a reference book for researchers who want an update for various main topics in the field

Nōshinjin kekkan shikkan kurinikaru toraiaru

2015-04-16

computer science an overview truly lives up to its title providing an introduction to the entire computer science discipline this broad coverage combined with clear explanations has made it the leading textbook for the breadth first cs0 course the text is unique in that it avoids presenting topics from the perspective of any particular programming language moreover the text communicates the dynamics of computer science by presenting topics in a historical perspective in which past developments the current state of the art and directions of research are discussed the result is a balanced realistic picture of computer science including such topics as programming languages operating systems algorithms software engineering networking database design artificial intelligence and machine architecture this seventh edition has been thoroughly updated to discuss important trends in such areas as networking and the internet software engineering and artificial intelligence topics added include open source development associative memory xml and c thought provoking discussions of ethical and legal issues revolving around computing are integrated into each chapter rather than being presented as separate isolated topics

Computer Science

2003

nowadays the innovation in space technologies creates a new trend for the earth observation and monitoring from space this book contains high quality and compressive work on both microwave and optical remote sensing applications this book is divided into five sections i remote sensing for biomass estimation ii remote sensing based glacier studies iii remote sensing for coastal and ocean applications iv sewage leaks and environment disasters and v remote sensing image processing each chapter offers an opportunity to expand the knowledge about various remote sensing techniques and persuade researchers to deliver new research novelty for environment studies

Environmental Applications of Remote Sensing

2016-06-08

all encompassing and expanded now covering the whole body lower quadrant plus upper quadrant and spine the comprehensive textbook of clinical biomechanics formerly biomechanics in clinic and

research presents the latest research in a form which is accessible practical thorough and up to the minute starts from basic principles and builds up to complex concepts highly practical with a constant clinical emphasis written for all health care professionals including physiotherapists and podiatrists addition of upper quadrant and spine title has changed to truly reflect the resource s expanded and comprehensive approach case studies and additional clinical examples new methods in emg analysis updated elearning course which is compatible with tablet and mobile devices a global team of writers

The Comprehensive Textbook of Biomechanics

2018-03-29

educational opportunities for pediatric residents and primary care providers that contribute to increased competence in pediatric dermatology are an important component of improving the quality and efficiency of dermatologic care provided to children and adolescents the 13 articles that comprise this issue have been selected to capture a significant proportion of the most common skindiseases that are seen in children and adolescents they are intended to provide practical information on diagnosis and initial management that can be performed by the primary care provider and to provide a framework for allowing for more active involvement by the primary care provider with regards to ongoing management of these conditions from atopic dermatitis to vitiligo the pediatric primary care provider is guaranteed to see these conditions in their practice

Pediatric Dermatology, An Issue of Pediatric Clinics,

2014-03-29

nato advanced institute ottawa ontario canada july 26 august 6 1982

Simulation and Model-Based Methodologies: An Integrative View

2012-12-06

this unique work compiles the latest knowledge around veterinary nutraceuticals commonly referred to as dietary supplements from ingredients to final products in a single source more than sixty chapters organized in seven sections collate all related aspects of nutraceutical research in animal health and disease among them many novel topics common nutraceutical ingredients section i prebiotics probiotics synbiotics enzymes and antibacterial alternatives section ii applications of nutraceuticals in prevention and treatment of various diseases such as arthritis periodontitis diabetes cognitive dysfunctions mastitis wounds immune disorders and cancer section iii utilization of nutraceuticals in specific animal species section iv safety and toxicity evaluation of nutraceuticals and functional foods section v recent trends in nutraceutical research and product development section vi as well as regulatory aspects for nutraceuticals section vii the future of nutraceuticals and functional foods in veterinary medicine seems bright as novel nutraceuticals will emerge and new uses of old agents will be discovered international contributors to this book cover a variety of specialties in veterinary medicine pharmacology pharmacognosy toxicology chemistry medicinal chemistry biochemistry physiology nutrition drug development regulatory frameworks and the nutraceutical industry this is a highly informative and carefully presented book providing scientific insight for academia veterinarians governmental and regulatory agencies with an interest in animal nutrition complementary veterinary medicine nutraceutical product development and research

Nutraceuticals in Veterinary Medicine

2019-05-21

this book constitutes the proceedings of the 25th international conference on automated deduction cade 25 held in berlin germany in august 2015 the 36 revised full papers presented 24 full papers and 12 system descriptions were carefully reviewed and selected from 85 submissions cade is the major forum for the presentation of research in all aspects of automated deduction including foundations applications implementations and practical experience

Automated Deduction - CADE-25

2015-07-30

since the publication of the best selling first edition the growing price and environmental cost of energy have increased the significance of tribology handbook of lubrication and tribology volume ii theory and design second edition demonstrates how the principles of tribology can address cost savings energy conservation and environmental pr

Handbook of Lubrication and Tribology, Volume II

2012-07-06

unmanned driving systems for smart trains explores the core technologies involved in unmanned driving systems for smart railways and trains from foundational theory to the latest advances the volume introduces the key technologies research results and frontiers of the field each chapter includes practical cases to ground theory in practice seven chapters cover key aspects of unmanned driving systems for smart trains including performance evaluation algorithm based reasoning and learning strategy main control parameters data mining and processing energy saving optimization and control and intelligent algorithm simulation platforms this book will help researchers find solutions in developing better unmanned driving systems responds to the expansion of smart railways and the adoption of unmanned global systems covers core technologies of unmanned driving systems for smart trains details a large number of case studies and experimental designs for unmanned railway systems adopts a multidisciplinary view where disciplines intersect at key points gives both foundational theory and the latest theoretical and practical advances for unmanned railways

Unmanned Driving Systems for Smart Trains

2020-11-13

the handbook of school violence and school safety international research and practice has become the premier resource for educational and mental health professionals and policymakers seeking to implement effective prevention and intervention programs that reduce school violence and promote safe and effective schools it covers the full range of school violence and safety topics from harassment and bullying to promoting safe secure and peaceful schools it also examines existing school safety programs and includes the multi disciplinary research and theories that guide them examinations of current issues and projections of future research and practice are embedded within each chapter this volume maps the boundaries of this rapidly growing and multidisciplinary field of study key features include comprehensive coverage the chapters are divided into three parts foundations assessment and measurement prevention and intervention programs together they provide a comprehensive review of what is known about the types causes and effects of school violence and the most effective intervention programs that have been developed to prevent violence and promote safe and thriving school climates

evidence based practice avoiding a one size fits all approach to prevention and intervention the focus throughout is on the application of evidence based practice to address factors most commonly associated with school violence and safety implications for practice each chapter bridges the research to practice gap with a section delineating implications for practice of the foregoing research chapter structure to ensure continuity and coherence across the book each chapter begins with a brief abstract and ends with a table showing the implications for practice international focus acknowledging the fact that school violence and safety is a global concern this edition has increased its focus on insights learned from cross national research and practice outside the usa expertise the editors and authors are experienced researchers teachers practitioners and leaders in the school violence field their expertise includes their breadth and depth of knowledge and experience bridging research policy and practice and representing a variety of international organizations studying school violence around the world

Handbook of School Violence and School Safety

2012-03-12

computer science an overview uses broad coverage and clear exposition to present a complete picture of the dynamic computer science field accessible to students from all backgrounds glenn brookshear uses a language independent context to encourage the development of a practical realistic understanding of the field an overview of each of the important areas of computer science e g networking os computer architecture algorithms provides students with a general level of proficiency for future courses the eleventh edition features two new contributing authors david smith indiana university of pa dennis brylow marquette university new modern examples and updated coverage based on current technology

Psychopharmacology Bulletin

1966

a need for a book on immunology which primarily focuses on the needs of medical and clinical research students was recognized this book immunosuppression role in health and diseases is relatively short and contains topics relevant to the understanding of human immune system and its role in health and diseases immunosuppression involves an act that reduces the activation or efficacy of the immune system therapeutic immunosuppression has applications in clinical medicine ranging from prevention and treatment of organ bone marrow transplant rejection management of autoimmune and inflammatory disorders it brings important developments both in the field of molecular mechanisms involved and active therapeutic approaches employed for immunosuppression in various human disease conditions there was a need to bring this information together in a single volume as much of the recent developments are dispersed throughout biomedical literature largely in specialized journals this book will serve well the practicing physicians surgeons and biomedical scientists as it provides an insight into various approaches to immunosuppression and reviews current developments in each area

Computer Science

2012

this book addresses the gap between innovative technologies and their adoption it showcases research feasibility studies and projects that demonstrate a variety of ways to implement environmental sustainability in globally operating firms as well as best practices in areas such as international management adoption of cleaner technologies global supply chains greenhouse gas emission reduction

and transportation the book provides state of the art information on issues including global sustainable management practices global sustainable food and agricultural markets global responsible mining and energy global sustainable sourcing global sustainable transportation global conservation innovations and investments presenting expert contributions from industry government and academia discussing a variety of themes and perspectives on the topic international business as a positive force of environmental sustainability it is a vital resource for stakeholders in the international business community

Immunosuppression

2012-02-24

food waste to valuable resources applications and management compiles current information pertaining to food waste placing particular emphasis on the themes of food waste management biorefineries valuable specialty products and technoeconomic analysis following its introduction this book explores new valuable resource technologies the bioeconomy the technoeconomical evaluation of food waste based biorefineries and the policies and regulations related to a food waste based economy it is an ideal reference for researchers and industry professionals working in the areas of food waste valorization food science and technology food producers policymakers and ngos environmental technologists environmental engineers and students studying environmental engineering food science and more presents recent advances trends and challenges related to food waste valorization contains invaluable knowledge on of food waste management biorefineries valuable specialty products and technoeconomic analysis highlights modern advances and applications of food waste bioresources in various products recovery

International Business, Trade and Institutional Sustainability

2019-10-25

the oxford textbook of medicine cardiovascular disorders is selected from the cardiology section of the renowned oxford textbook of medicine an authoritative resource on heart disease and beautifully illustrated in full colour it is an essential guide to best practice in managing and preventing a wide variety of cardiovascular disorders chapters on arrhythmias acute coronary syndromes and cardiac surgery have been completely revised and updated together with new chapters on blood vessels and the endothelium cardiac physiology syncope and palpitations and cardio renal syndrome heart failure and heart disease in pregnancy are thoroughly treated while imaging chapters evaluate the latest techniques and illustrate all clinical features with detailed images in 46 finely crafted chapters with clear essentials experts in cardiovascular disease review the essentials of diagnosis guidelines and practice and provide a wealth of practical advice for use in clinical situations in addition background information on epidemiology pathogenesis and pathophysiology encourages a fuller understanding of conditions and more than 350 full colour images help with diagnosis this essential reference tool supports all medical professionals seeking a general outline of treatment and prevention of cardiovascular disorders and fills the gap between undergraduate teaching texts and specialist texts for cardiologists cardiologists and general physicians will find it immensely valuable when diagnosing and managing heart disease in their day to day practice it is also of use for trainees in cardiology and general medicine especially those interested in applied cardiovascular pathophysiology

Food Waste to Valuable Resources

2020-04-28

a groundbreaking book on the application of the economic and environmentally effective treatment of

industrial wastewater constructed wetlands for industrial wastewater treatment contains a review of the state of the art applications of constructed wetland technology for industrial wastewater treatment this green technology offers many economic environmental and societal advantages the text examines the many unique uses and the effectiveness of constructed wetlands for the treatment of complex and heavily polluted wastewater from various industrial sources the editor a noted expert in the field and the international author team 93 authors from 22 countries present vivid examples of the current state of constructed wetlands in the industrial sector the text is filled with international case studies and research outcomes and covers a wide range of applications of these sustainable systems including facilities such as the oil and gas industry agro industries paper mills pharmaceutical industry textile industry winery brewery sludge treatment and much more the book reviews the many system setups examines the different removal and or transformational processes of the various pollutants and explores the overall effectiveness of this burgeoning technology this important resource offers the first groundbreaking text on constructed wetlands use for industrial wastewater treatment provides a single reference with summarized information and the state of the art knowledge of the use of constructed wetlands in the industrial sector through case studies research outcomes and review chapters covers a range of industrial applications such as hydrocarbons oil and gas industry food and beverage wood and leather processing agro industries pharmaceuticals and many others includes best practices drawn by a collection of international case studies presents the latest technological developments in the industry written for civil and environmental engineers sustainable wastewater water managers in industry and government constructed wetlands for industrial wastewater treatment is the first book to offer a comprehensive review of the set up and effectiveness of constructed wetlands for a wide range of industrial applications to highlight the diverse economic and environmental benefits this technology brings to the industry

Oxford Textbook of Medicine: Cardiovascular Disorders

2016-06-03

the most trusted resource for physiatry knowledge and techniques braddom s physical medicine and rehabilitation remains an essential guide for the entire rehabilitation team with proven science and comprehensive guidance this medical reference book addresses a range of topics to offer every patient maximum pain relief and optimal return to function in depth coverage of the indications for and limitations of axial and peripheral joints through therapies enables mastery of these techniques optimize the use of ultrasound in diagnosis and treatment a chapter covering pm r in the international community serves to broaden your perspective in the field detailed illustrations allow you to gain a clear visual understanding of important concepts new lead editor dr david cifu was selected by dr randall braddom to retain a consistent and readable format additional new authors and editors provide a fresh perspective to this edition features comprehensive coverage of the treatment of concussions and military amputees includes brand new information on rehabilitating wounded military personnel the latest injection techniques speech swallowing disorders head injury rehabilitation and the rehabilitation of chronic diseases new chapters on pelvic floor disorders and sensory impairments keep you at the forefront of the field reader friendly design features an updated table of contents and improved chapter approach for an enhanced user experience expert consult ebook version included with purchase this enhanced ebook experience gives access to the text figures over 2 500 references 51 videos and 750 self assessment questions on a variety of devices

Constructed Wetlands for Industrial Wastewater Treatment

2018-06-26

lung transplantation principles and practice covers the current practice in donor and recipient management as well as current treatment strategies and outcomes with 39 chapters from international

experts in the field the book is divided into four broad sections general topics donor management recipient management and outcome and the future o

Braddom's Physical Medicine and Rehabilitation

2015-08-20

the second edition of the growing spine has been extensively revised to cover recent advances in knowledge and management the book is intended as a comprehensive one stop reference for specialists and health professionals who care for young children with spinal deformities in addition it will effectively help to standardize the care of these patients depending on the etiology children with spinal deformities are often cared for by multiple specialists including pediatricians pediatric orthopaedists or orthopaedic spine surgeons neurologists pediatric surgeons pediatric neurosurgeons oncologists and pulmonologists the multidisciplinary nature of care is reflected in the growing spine which will be of value for all involved practitioners rather than just orthopaedic specialists it will also be an ideal reference for nurses physical therapists and healthcare professionals in training who are usually unfamiliar with spinal deformities in children

Lung Transplantation

2016-01-05

in the face of limited progress toward meeting millennium development goals or addressing climate change and resource degradation increasing attention turns to harnessing the entrepreneurial innovative managerial and financial capacities of business for improved social and environmental outcomes a more proactive role for business in sustainable development is especially pertinent in sub saharan africa which has been plagued by conflict and poverty but shows signs of a brighter future as the world s second fastest growing region the book considers how the socio economic context influences the objectives of social innovation and even our definition of what we mean by social innovation secondly the book aims to show how social innovation initiatives emerge and fare in context of the limited ability of many african countries to provide public goods and services

The Growing Spine

2015-11-02

this book describes the latest advances in systems biology in four plant based marine ecosystems seaweeds seagrasses microalgae and corals marine organisms that inhabit the oceanic environment experience a diverse range of environmental fluctuations anthropogenic stress and threats from invasive species and pathogens system biology integrates physiology genomics transcriptomics proteomics and metabolomics into numerical models and is emerging as an important approach to elucidate the functional adaptations of marine organisms to adverse environmental conditions this book focuses on how ecophysiology omics platforms their integration a systems biology perspective and next generation sequencing tools are being used to address the stress response of marine seaweeds seagrasses corals marine microbe diversity and micro and macroalgae corals bacterial interactions to global climate change and anthropogenic activities the contents of the book are of special interest to graduate and postgraduate marine biology students and marine biology researchers particularly those interested in marine ecology stress physiology of marine macrophytes corals phytoplankton and environmental microbiology this book would also be of interest to marine engineers engaged in the management and conservation of our valuable marine resources

The Business of Social and Environmental Innovation

2015-01-05

diseases and conditions in dentistry an evidence based reference is the ideal one stop guide for dentistry clinicians to keep at their side provides a quick reference for the busy clinician covering diseases and conditions in endodontics periodontics prosthodontics and restorative dentistry offers identically formatted chapters following the same clear and concise layout with detailed clinical cases and evidence based discussions features a companion website with additional clinical photographs radiographs and case notes

Systems Biology of Marine Ecosystems

2017-10-17

nanotechnology and high end characterization techniques have highlighted the importance of the material choice for the success of tissue engineering a paradigm shift has been seen from conventional passive materials as scaffolds to smart multi functional materials that can mimic the complex intracellular milieu more effectively this book presents a detailed overview of the rationale involved in the choice of materials for regeneration of different tissues and the future directions in this fascinating area of materials science with specific chapters on regulatory challenges ethics tissue engineered medical products

Diseases and Conditions in Dentistry

2018-07-16

now in its eighth edition this book continues to provide a comprehensive accessible and up to date introduction to the dynamic field of computer science using a breadth first approach the table of contents and the text itself have been revised and expanded to reflect changes in the field including the trend toward using and internet technology the evolution of objects and the important growth in the field of databases specifically chapter three from the previous edition has been expanded into two chapters chapter three will now only cover operating systems and the new chapter four will focus on networks and the internet anyone interested in gaining a thorough introduction to computer science

Biomaterials and Nanotechnology for Tissue Engineering

2016-10-26

bioethanol production from food crops sustainable sources interventions and challenges comprehensively covers the global scenario of ethanol production from both food and non food crops and other sources the book guides readers through the balancing of the debate on food vs fuel giving important insights into resource management and the environmental and economic impact of this balance between demands sections cover global bioethanol from food crops and forest resource bioethanol from bagasse and lignocellulosic wastes bioethanol from algae and economics and challenges presenting a multidisciplinary approach to this complex topic as biofuels continue to grow as a vital alternative energy source it is imperative that the proper balance is reached between resource protection and human survival this book provides important insights into achieving that balance presents technological interventions in ethanol production from plant biomass to food crops addresses food security issues arising from bioethanol production identifies development bottlenecks and areas where collaborative efforts can help develop more cost effective technology

Computer Science

1994

advancements in the field of information technology have transformed the way businesses interact with each other and their customers businesses now require customized products and services to reflect their constantly changing environment yet this results in cutting edge products with relatively short lifecycles innovative solutions for implementing global supply chains in emerging markets addresses the roles of knowledge management and information technology within emerging markets this forward thinking title explores the current trends in supply chain management knowledge acquisition and transfer mechanisms among supply chain partners and knowledge management paradigms this book is an invaluable resource for researchers business professionals and students business analysts and marketing professionals

Bioethanol Production from Food Crops

2018-08-20

surgical management of esophageal disease is reviewed extensively in this important surgical clinics of north america issue articles include approach to patients with esophageal dysphagia esophageal motility disorders achalasia esophageal stricture and diverticula benign esophageal masses gastroesophageal disease barrett s esophagus preoperative evaluation of gerd surgical treatment of gerd endoscopic treatment of gerd paraesophageal hernia short esophagus reoperative antireflux surgery gerd after bariatric procedure minimally invasive esophagectomy for benign eosophageal disease and more

Innovative Solutions for Implementing Global Supply Chains in Emerging Markets

2016-01-28

actinobacteria are well known producers of a vast array of secondary metabolites compared with actinobacteria from temperate habitats the community structure diversity biological activities and mechanisms of environmental adaptation of those actinobacteria in special and extreme environments are relatively unstudied and unclear and their functions and utilization are even less reported these actinobacteria are potential new sources of novel natural products and functions for exploitation in medicine agriculture and industry recent advances in cultivation dna sequencing technologies and omics methods have greatly contributed to the rapid advancement of our understanding of microbial diversity taxonomy function and they interactions with environment following the success of the research topic actinobacteria in special and extreme habitats diversity functional roles and environmental adaptations organized in 2015 we are happy to launch a second edition this research topic second edition comprising reviews and original articles highlights recent discoveries on rare actinobacterial diversity phylogenomics biological compounds ecological function and environmental adaptations of actinobacteria in special and extreme habitats and broadens our knowledge of actinobacterial diversity and their ecophysiological function

Surgical Approaches to Esophageal Disease, An Issue of Surgical Clinics,

2015-06-14

every three years worldwide forensics experts gather at the interpol forensic science symposium to exchange ideas and discuss scientific advances in the field of forensic science and criminal justice drawn from contributions made at the latest gathering in lyon france interpol s forensic science review is a one source reference providing a comp

Actinobacteria in Special and Extreme Habitats: Diversity, Function Roles and Environmental Adaptations, Second Edition

2019-11-14

this brief reviews contemporary research conducted in university and industry laboratories on thermal management in electrochemical energy storage systems capacitors and batteries that have been widely used as power sources in many practical applications such as automobiles hybrid transport renewable energy installations power backup and electronic devices placing a particular emphasis on supercapacitors the authors discuss how supercapacitors or ultra capacitors are complementing and replacing batteries because of their faster power delivery longer life cycle and higher coulombic efficiency while providing higher energy density than conventional electrolytic capacitors recent advances in both macro and micro capacitor technologies are covered the work facilitates systematic understanding of thermal transport in such devices that can help develop better power management systems

Interpol's Forensic Science Review

2017-08-09

this comprehensive guide to mri of the pregnant patient presenting with fetal or maternal diseases provides a practical hands on approach to the use of state of the art mri techniques and the optimization of sequences it analyzes data obtained from maternal and fetal mri examinations reviews fast imaging techniques details pitfalls related to fetal mri and assesses methods for improving image resolution fetal pathological conditions and methods of prenatal mri diagnosis are discussed according to organ system and the literature is reviewed interpretation of findings and potential artifacts are thoroughly considered with the aid of numerous high quality illustrations the book will be a detailed resource for radiologists obstetricians neonatologists and geneticists as well as any other practitioner who wishes to gain an in depth understanding of fetal and maternal mri in addition it will serve as a reference source for technicians researchers and students as well as for any specialist who is planning to set up a fetal and maternal mri service

Thermal Effects in Supercapacitors

2015-06-17

anaphylaxis has usually been studied and understood from an immunological view and the main lethal effects involve the cardio vascular system despite exhaustive efforts exerted in this area of research much more investigation is needed to mitigate recognize or prevent this disease the scope of this research topic is to present and discuss the current knowledge of anaphylaxis from the clinic to the underlying molecular mechanisms we are thankful to the medical doctors researchers and colleagues who have contributed to this issue as it would not have been possible without their highly valuable expertise in allergy and anaphylaxis research

MRI of Fetal and Maternal Diseases in Pregnancy

2015-10-30

the concise garland encyclopedia of world music comprises two volumes and can only be purchased as the two volume set to purchase the set please go to routledge.com/9780415972932

Energy Abstracts for Policy Analysis

1988

this volume collects ten surveys on the modeling simulation and applications of active particles using methods ranging from mathematical kinetic theory to nonequilibrium statistical mechanics the contributing authors are leading experts working in this challenging field and each of their chapters provides a review of the most recent results in their areas and looks ahead to future research directions the approaches to studying active matter are presented here from many different perspectives such as individual based models evolutionary games brownian motion and continuum theories as well as various combinations of these applications covered include biological network formation and network theory opinion formation and social systems control theory of sparse systems theory and applications of mean field games population learning dynamics of flocking systems vehicular traffic flow and stochastic particles and mean field approximation mathematicians and other members of the scientific community interested in active matter and its many applications will find this volume to be a timely authoritative and valuable resource

New Insights in Anaphylaxis

2018-04-20

the exponential growth of clinical psychology since the late 1960s can be measured in part by the extensive literature on the subject the field has come to be defined as much by its many topics as its many voices the oxford handbook of clinical psychology synthesizes these decades of literature in one volume in addition to core sections on topics such as training assessment diagnosis and intervention the handbook includes chapters devoted to emerging issues in the clinical field including health care reforms cultural factors and technological innovations and challenges each chapter offers a review of the most pertinent literature outlining issues and identifying possibilities for future research

The Concise Garland Encyclopedia of World Music

2013-02

now in its seventh edition this highly regarded book is designed as an introductory and reference text on the principles of diagnosis staging and treatment of tumors as for the last 6 editions of the book the aim and scope of the new edition are once again to provide a thorough yet reasonably brief account of the whole field of oncology focusing on the latest principles of cancer management the book is already well established having been first published in 1986 and in continuous print since then the authors are rightfully proud of their strong legacy of providing carefully revised new editions of this standard and well received cancer text for audiences in the uk and abroad oncology is a very rapidly changing speciality with many new treatments and even treatment modalities coming on stream with bewildering speed besides a thorough general updating of the text figures and tables the new seventh edition adds a new chapter on molecular targeted therapy making the book 30 chapters in total this accessible and practical resource is invaluable to trainees and specialists alike in oncology palliative care and general medicine as well as specialist nurses general practitioners medical students and

professions allied to medicine

Active Particles, Volume 1

2017-04-06

The Oxford Handbook of Clinical Psychology

2014

Cancer and its Management

2014-11-17

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