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advances in energy equipment science and engineering contains selected papers from the 2015 international conference on energy equipment science and engineering iceese 2015 guangzhou china 30 31 may 2015 the topics covered include advanced design technology energy and chemical engineering energy and environmental engineering energy scien this book gathers an in depth collection of 45 selected papers presented at the global conference on global warming 2014 in beijing china covering a broad variety of topics from the main principles of thermodynamics and their role in design analysis and the improvements in performance of energy systems to the potential impact of global warming on human health and wellbeing given energy production s role in contributing to global warming and climate change this work provides solutions to global warming from the point of view of energy inc

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disciplinary expertise and approaches it provides a platform for the analysis of new developments in the area of global warming and climate change as well as potential energy solutions including renewable energy energy efficiency energy storage hydrogen production co2 capture and environmental impact assessment the research and analysis presented herein will benefit international scientists researchers engineers policymakers and all others with an interest in global warming and its potential solutions selected peer reviewed papers from the 2013 international conference on advanced technologies and solutions in industry icatsi 2013 march 22 23 2013 taiyuan shanxi china this book compiles the first part of contributions to the china europe conference on geotechnical engineering held 13 16 august 2016 in vienna austria about 400 papers from 35 countries cover virtually all areas of geotechnical engineering and make this conference a truly international event the contributions are grouped into thirteen special sessions and provide an overview of the geoenvironmental research and practice in china europe and the world constitutive model micro macro relationship numerical simulation laboratory testing geotechnical monitoring instrumentation and field test foundation engineering underground construction environmental geotechnical engineering

geomaterials and ground improvement cold regions geotechnical engineering geohazards risk assessment mitigation and prevention unsaturated soils and energy geotechnics geotechnics in transportation structural and hydraulic engineering through over 20 extraordinary executive interviews coates captures the essence of sourcing and manufacturing in china the concrete solutions series of international conferences on concrete repair began in 2003 with a conference held in st malo france in association with insa rennes subsequent conferences have seen us partnering with the university of padua in 2009 and with tu dresden in 2011 this conference is being held for the first time in the uk in association with queen s university belfast and brings together delegates from 36 countries to discuss the latest advances and technologies in concrete repair earlier conferences were dominated by electrochemical repair but there has been an interesting shift to more unusual methods such as bacterial repair of concrete plus an increased focus on service life design aspects and modelling with debate and discussion on the best techniques and the validity of existing methods repair of heritage structures is also growing in importance and a number of the papers have focused on the importance of getting this right so that we may preserve our

heritage of historic structures this book is an essential reference work for those working in the concrete repair field from engineers to architects and from students to clients rock characterisation modelling and engineering design methods contains the contributions presented at the 3rd isrm sinorock symposium shanghai china 1820 june 2013 the papers contribute to the further development of the overall rock engineering design process through the sequential linkage of the three themes of rock characterisation model this book objectively presents the achievements status quo and trends of china s internet development in 2022 systematically summarizes the major experiences of china s internet development and deeply analyses the strategic planning policies and measures and development achievements level and trends in china in terms of eight aspects i e information infrastructure digital economy e government digital society cyber content cybersecurity cyber law international cyberspace governance and exchange and cooperation this book further optimizes the index system of china s internet development and comprehensively evaluates the work of cybersecurity and informatisation in 31 provinces autonomous regions municipalities directly under the central government excluding hong kong macao and taiwan according to the

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from six dimensions so as to reflect the internet development level in china and various regions in a comprehensive accurate and objective way this book collects the latest research results on china s internet development and selects the most recent cases and reliable data with diverse topics and in depth discussions this book is of great significance to those involved in the internet field in government departments internet enterprises scientific research institutions and universities who hope to fully understand china s internet development in the last decades advanced materials and mechanics has become a hot topic in engineering recent trends show that the application of nanotechnology and environmental science together with advanced materials and mechanics are playing an increasingly important role in engineering applications for catching up with this current trend this boo risk reliability and safety contains papers describing innovations in theory and practice contributed to the scientific programme of the european safety and reliability conference esrel 2016 held at the university of strathclyde in glasgow scotland 25 29 september 2016 authors include scientists academics practitioners regulators and other key individuals with expertise and experience relevant to specific areas papers include domain specific applications as well as

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general modelling methods papers cover evaluation of contemporary solutions exploration of future challenges and exposition of concepts methods and processes topics include human factors occupational health and safety dynamic and systems reliability modelling maintenance optimisation uncertainty analysis resilience assessment risk and crisis management 14th international symposium on process systems engineering volume 49 brings together the international community of researchers and engineers interested in computing based methods in process engineering the conference highlights the contributions of the pse community towards the sustainability of modern society and is based on the 2021 event held in tokyo japan july 1 23 2021 it contains contributions from academia and industry establishing the core products of pse defining the new and changing scope of our results and covering future challenges plenary and keynote lectures discuss real world challenges globalization energy environment and health and contribute to discussions on the widening scope of pse versus the consolidation of the core topics of pse highlights how the process systems engineering community contributes to the sustainability of modern society establishes the core products of process systems engineering defines the future challenges of process systems

engineering as societies continue to grow and develop the demand for energy has increased worldwide in china coal is still one of the principal energy resources and it is expected that more coal mining projects are needed in the future as mining operations continue to increase their production rates and discover more ore reserves mine safety issues have b collection of selected peer reviewed papers from the 2014 international conference on frontiers of advanced materials and engineering technology famet 2014 march 28 29 2014 hongkong the 447 papers are grouped as follows chapter 1 materials engineering and science chapter 2 mechanical construction manufacturing engineering and applied research chapter 3 information technologies control monitoring and data processing chapter 4 product design management and environmental research chapter 5 bio and medical research this book gathers the latest advances innovations and applications in the field of mechanical engineering as presented by leading international researchers and engineers at the 2020 international conference on mechanical engineering and materials icmem held in beijing china on october 16 17 2020 icmem covers all aspects of mechanical engineering and material sciences such as computer aided design virtual design and design visualization intelligent design usability design on automobile

structure human machine interface design manufacturing engineering aerospace engineering automation and robotics micro machining mems nems composite materials biomaterials smart materials superconducting materials materials properties and applications materials manufacturing nanotechnology nano materials and nano composites etc the contributions which were selected by means of a rigorous international peer review process highlight numerous exciting ideas that will spur novel research directions and foster multidisciplinary collaborations civil engineering and energy environment focuses on the research of civil engineering environment resources and energy materials this proceedings gathers the most cutting edge research and achievements aiming to provide scholars and engineers with preferable research direction and engineering solution as reference subjects in this proceedings include engineering structure environmental protection materials architectural environment environment resources energy storage building electrical engineering the works of this proceedings will promote development of civil engineering and environment engineering thereby promote scientific information interchange between scholars from top universities research centers and high tech enterprises working all around the world

in fracture porous media plays a significant role in the assessment of deep underground reservoirs such as through CO₂ sequestration enhanced oil recovery and geothermal energy development many methods have been employed from laboratory experimentation to theoretical analysis and numerical simulations and allowed for many useful conclusions this special issue aims to report on the current advances related to this topic this collection of 58 papers represents a wide variety of topics including on granite permeability investigation grouting coal mining roadway and concrete to name but a few we sincerely hope that the papers published in this special issue will be an invaluable resource for our readers china trust and digital supply chains presents a critical reflection on blockchain technologies in the context of their adoption in china and the world that china is engaged in and shaping approaching the issues of blockchain technology adoption and development on china's own terms is critical if policy makers and others are to make effective sense of one of the key dynamics shaping the next few decades of the global landscape the work challenges the trust trope that dominates much discussion of blockchain technology's application it argues contrary to the predominant trust trope that blockchain is not about trust at all it shows that

imagining of the 21st century global order is premised on driving intensified cross border economic interactions without the presupposition of trust and blockchain technology makes that possible it also explores the paradox of technological decentralisation being taken up with vigour by a centralist polity the role of blockchain technology as a critical condition of existence for the successful globalisation of china s digital currency initiative and the need to devise governance institutions that are multilateral in nature to reflect the multi polar nature of decentralised information systems with domestic and cross border permutations this book is of significant interest to readers of political economy public policy blockchain technology and chinese studies this book solves the open problems in fluid flow modeling through the fractured vuggy carbonate reservoirs fractured vuggy carbonate reservoirs usually have complex pore structures which contain not only matrix and fractures but also the vugs and cavities since the vugs and cavities are irregular in shape and vary in diameter from millimeters to meters modeling fluid flow through fractured vuggy porous media is still a challenge the existing modeling theory and methods are not suitable for such reservoir it starts from the concept of discrete fractures and fractures

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vug networks model and then develops the corresponding mathematical models and numerical methods including discrete fracture model discrete fracture vug model hybrid model and multiscale models based on these discrete porous media models some equivalent medium models and methods are also discussed all the modeling and methods shared in this book offer the key recent solutions into this area wave propagation is central to all areas of petroleum engineering e g drilling vibrations mwd mud pulse telemetry swab surge geophysical ray tracing ocean and current interactions electromagnetic wave and sonic applications in the borehole but rarely treated rigorously or described in truly scientific terms even for a single discipline wilson chin an mit and caltech educated scientist who has consulted internationally provides an integrated comprehensive yet readable exposition covering all of the cited topics offering insights algorithms and validated methods never before published a must on every petroleum engineering bookshelf in particular the book delivers drillstring vibrations models coupling axial torsional and lateral motions that predict rate of penetration bit bounce and stick slip as they depend on rock bit interaction and bottomhole assembly properties explains why catastrophic lateral vibrations at the selection point

cannot be observed from the surface even in vertical wells but providing a proven method to avoid them demonstrates why fermat's principle of least time used in geophysics applies to non dissipative media only but using the kinematic wave theory developed at mit derives powerful methods applicable to general attenuative inhomogeneous media develops new approaches to mud acoustics and applying them to mud telemetry modeling and strong transients in modern swab surge applications derives new algorithms for borehole geophysics interpretation e g rh and rv in electromagnetic wave and permeability in stoneley waveform analysis and outlines many more applications e g wave loadings on offshore platforms classical problems in wave propagation and extensions to modern kinematic wave theory these disciplines important to all field oriented activities are not treated as finite element applications that are simply gridded number crunched and displayed but as scientific disciplines deserving of clear explanation general results are carefully motivated derived and applied to real world problems with results demonstrating the importance and predictive capabilities of the new methods increasing population and environmental pollution are the main stress on freshwater sources on the other hand freshwater needs

increase dramatically every day from agriculture to industry and from household to recreation we need freshwater in the near future saltwater and brackish water bodies may be the main source of freshwater for our planet desalination phenomena are now being implemented with increasing interest the book on desalination provides a valuable scientific contribution on freshwater production from saltwater sources in this book necessary theoretical knowledge and experimental results of different desalination processes are presented china satellite navigation conference csnc 2015 proceedings presents selected research papers from csnc2015 held during 13th 15th may in xian china the theme of csnc2015 is opening up connectivity and win win these papers discuss the technologies and applications of the global navigation satellite system gnss and the latest progress made in the china beidou system bds especially they are divided into 10 topics to match the corresponding sessions in csnc2015 which broadly covered key topics in gnss readers can learn about the bds and keep abreast of the latest advances in gnss techniques and applications sun jiadong is the chief designer of the compass bds and the academician of chinese academy of sciences cas liu jingnan is a professor at wuhan university fan shiwei is a researcher at china satellite navigation

office lu xiaochun is an academician of chinese academy of sciences
cas this book presents recent developments in nonlinear dynamics with
an emphasis on complex systems the volume illustrates new methods to
characterize the solutions of nonlinear dynamics associated with
complex systems this book contains the following topics new solutions
of the functional equations optimization algorithm for traveling
salesman problem fractals control fractional calculus models
fractional discretization local fractional partial differential
equations and their applications and solutions of fractional kinetic
equations this book constitutes the refereed post conference
proceedings of the 8th ifip wg 5 14 international conference on
computer and computing technologies in agriculture ccta 2014 held in
beijing china in september 2014 the 81 revised papers included in this
volume were carefully selected from 216 submissions they cover a wide
range of interesting theories and applications of information
technology in agriculture including intelligent sensing monitoring and
automatic control technology key technology and models of the internet
of things intelligent technology for agricultural equipment computer
vision computer graphics and virtual reality computer simulation
optimization and modeling cloud computing and agriculture

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applications agricultural big data decision support systems and expert systems 3s technology and precision agriculture quality and safety of agricultural products detection and tracing technology and agricultural electronic commerce technology the 2016 international conference on automotive engineering mechanical and electrical engineering aemee 2016 was held december 9 11 2016 in hong kong china aemee 2016 was a platform for presenting excellent results and new challenges facing the fields of automotive mechanical and electrical engineering automotive mechanical and electrical engineering brings together a wide range of contributions from industry and governmental experts and academics experienced in engineering design and research papers have been categorized under the following headings automotive engineering and rail transit engineering mechanical manufacturing process engineering network communications and applied information technologies technologies in energy and power cell engines generators electric vehicles system test and diagnosis monitoring and identification video and image processing applied and computational mathematics methods algorithms and optimization technologies in electrical and electronic control and automation industrial production manufacturing management and logistics in the rapid development of cost

global economics energy environmental ecosystem are recognized as important factors for sustainable development in human society the application of measurement and control technology also play a very important role in the utilization and protection of energy and the environment 2015 international conference on energy environmental sustainable ecosystem development eesed 2015 is a multidisciplinary international conference that provides a platform for scientists engineers and researchers worldwide to share their ideas and present solutions to energy environmental sustainable ecosystem development issues in the rapid development of global economics energy environmental ecosystem are recognized as important factors for sustainable development in human society the application of measurement and control technology also play a very important role in the utilization and protection of energy and the environment 2015 international conference on energy environmental sustainable ecosystem development eesed 2015 is a multidisciplinary international conference that provides a platform for scientists engineers and researchers worldwide to share their ideas and present solutions to energy environmental sustainable ecosystem development issues contents energy science and technology environmental science and engineering manual cost

energy and sustainable development energy environmental sustainable ecological development infrastructure management and environment readership researchers academics professionals and graduate students in environmental science keywords energy science and technology environmental science and engineering renewable energy and sustainable development energy environmental sustainable ecological development composite materials have aroused a great interest over the last few decades as proven by the huge number of scientific papers and industrial progress the increase in the use of composite structures in different engineering practices justify the present international meeting where researches from every part of the globe can share and discuss the recent advancements regarding the use of structural components within advanced applications such as buckling vibrations repair reinforcements concrete composite laminated materials and more recent metamaterials studies about composite structures are truly multidisciplinary and the given contributions can help other researches and professional engineers in their own field this conference is suitable as a reference for engineers and scientists working in the professional field in the industry and the academia and it gives the possibility to share recent advancements

engineering practices to the outside world this book aims to collect selected plenary and key note lectures of this international conference for this reason the establishment of this 20th edition of international conference on composite structures has appeared appropriate to continue what has been begun during the previous editions iccs wants to be an occasion for many researchers from each part of the globe to meet and discuss about the recent advancements regarding the use of composite structures sandwich panels nanotechnology bio composites delamination and fracture experimental methods manufacturing and other countless topics that have filled many sessions during this conference as a proof of this event which has taken place in paris france selected plenary and key note lectures have been collected in the present book this collection covers new aspects of numerical methods in applied mathematics engineering and health sciences it provides recent theoretical developments and new techniques based on optimization theory partial differential equations pdes mathematical modeling and fractional calculus that can be used to model and understand complex behavior in natural phenomena specific topics covered in detail include new numerical methods for nonlinear partial differential equations global optimization and distributed cost

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optimization detection of hiv protease modelling with new fractional operators analysis of biological models and stochastic modelling everyone's guide forecast solution introduces new easy to use statistical methods so that the reader can answer the questions how long will nuclear peace tend to continue and what can be done to extend it further dietrich fischer a past macarthur fellow at princeton was emphatic this is an original highly readable contribution to the most important issue facing humanity today surviving the nuclear threat jeanes combines lucid common sense with mathematical rigor in this landmark work anyone with an interest in having a future should read this work similarly another distinguished scholar author in the field declared it was more than interesting it was completely fascinating the general literate reader can assess when a nuclear use small or otherwise would tend to occur at probabilities from 1 to 99.9 what precisely can be done to forestall such use jeanes debunks deterrence theory illustrates consequences of proliferation provides a unified explanation for warfare conventional nuclear a comprehensive work ethical political historical analytical 100 graphs tables 1 500 footnotes toll free 24 hours a day credit card line 800 448 3330 publisher 800 446 0467 this book is devoted to taking you all cost

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in establishing a multi disciplinary and inter disciplinary platform for exchanging fresh thinking in the field of strategic studies the book gathers invited reports from various prestigious scholars from home and abroad the aim of this book is threefold firstly to provide a comprehensive overview of the emerging evolution in international and regional orders as well as the recent strategy adjustments among major world powers secondly to discuss major strategic issues facing china and to further propose the chinese wisdom and a chinese strategic approach to sustaining peace and development and to reaching a benign international interaction between china and other entities in the world such as achieving cooperation and mutual benefits between china and the world thirdly to investigate the key factors in enhancing china s domestic governance such as strengthening state political capacity national environmental governance etc the editorial group selected 10 high quality reports to disseminate the findings and promote future research collaboration in this area this timely book offers both theoretical insights and rigorous quantitative method that impact china s peaceful rise in the international arena delivering modernity childbirth in republican china 1911 1949 is the study of a pivotal period in which traditional midwifery marked solution manual cost

unregulated old style midwives was transformed into modern midwifery through the adoption of a highly medicalized and state sponsored birth model that is standard in urban china today in the twentieth century biomedical technologies altered the process of childbirth on virtually every level what had been a matter of private interest focusing on the family and lineage became a national priority a symbol of the new citizen who would participate in the creation of a revitalized nation this transformation of reproduction coalesces with the broader story of china s twentieth century revolutions marked by an emphasis on science and modernity the roles of the state and of western medical personnel were paramount in affecting these changes but equally important are the intense social and cultural shifts that occurred simultaneously the dominant themes of reproduction in twentieth century china are characterized by expanding state involvement shifting gender roles escalating consumption patterns accompanying the commercialization of private lives and the increasing medicalization of the birth process written by a world renowned theoretical physicist introduction to statistical physics second edition clarifies the properties of matter collectively in terms of the physical laws governing atomic motion this second edition expands solution manual cost

to include many additional exercises and more pedagogically oriented discussions that fully explain the concepts and applications the book first covers the classical ensembles of statistical mechanics and stochastic processes including brownian motion probability theory and the fokker planck and langevin equations to illustrate the use of statistical methods beyond the theory of matter the author discusses entropy in information theory brownian motion in the stock market and the monte carlo method in computer simulations the next several chapters emphasize the difference between quantum mechanics and classical mechanics the quantum phase applications covered include fermi statistics and semiconductors and bose statistics and bose einstein condensation the book concludes with advanced topics focusing on the ginsburg landau theory of the order parameter and the special kind of quantum order found in superfluidity and superconductivity assuming some background knowledge of classical and quantum physics this textbook thoroughly familiarizes advanced undergraduate students with the different aspects of statistical physics this updated edition continues to provide the tools needed to understand and work with random processes the evaluation of in situ rock stress is not only important in the exploration and engineering involving rock masses for

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mining hydropower tunneling oil and gas production and stone quarrying but also in the geodynamics and earthquake prediction the methods of determining these stresses for shallow crust in the engineering practice including this volume contains the edited technical presentations of prolmat 2006 the ifip tc5 international conference held on june 15 17 2006 at the shanghai university in china the papers collected here concentrate on knowledge strategies in product life cycle and bring together researchers and industrialists with the objective of reaching a mutual understanding of the scientific industry dichotomy while facilitating the transfer of core research knowledge to core industrial competencies volume is indexed by thomson reuters cpci s was the collection of peer reviewed papers covers all aspects of mechanics and materials theoretical experimental and computational specific topics of interest include mechanics of materials rock and soil mechanics fluid and heat mechanics machine parts and mechanisms composites micro nano materials steel and alloys and building materials and other related topics biomass can be used to produce renewable electricity thermal energy transportation fuels biofuels and high value functional chemicals as an energy source biomass can be used either directly via combustion or indirectly via

indirectly after it is converted to one of many forms of bioenergy and biofuel via thermochemical or biochemical pathways the conversion of biomass can be achieved using various advanced methods which are broadly classified into thermochemical conversion biochemical conversion electrochemical conversion and so on advanced development technologies and processes are able to convert biomass into alternative energy sources in solid e g charcoal biochar and rdf liquid biodiesel algae biofuel bioethanol and pyrolysis and liquefaction bio oils and gaseous e g biogas syngas and biohydrogen forms because of the merits of biomass energy for environmental sustainability biofuel and bioenergy technologies play a crucial role in renewable energy development and the replacement of chemicals by highly functional biomass this book provides a comprehensive overview and in depth technical research addressing recent progress in biomass conversion processes it also covers studies on advanced techniques and methods for bioenergy and biofuel production volume is indexed by thomson reuters cpci s was this special volume presents discusses and reviews the latest advances in the science and technology of high performance ceramics the editors received more than 700 contributions from which following a strict peer review process

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manuscripts were chosen for inclusion in this collection these two volumes constitute the refereed proceedings of the third asian conference on computer vision accv 98 held in hong kong china in january 1998 the volumes present together a total of 58 revised full papers and 112 revised posters selected from over 300 submissions the papers are organized in topical sections on biometry physics based vision color vision robot vision and navigation ocr and applications low level processing active vision face and hand posture recognition segmentation and grouping computer vision and virtual reality motion analysis and object recognition and modeling

Advances in Energy Science and Equipment Engineering 2015-11-05

advances in energy equipment science and engineering contains selected papers from the 2015 international conference on energy equipment science and engineering iceese 2015 guangzhou china 30 31 may 2015 the topics covered include advanced design technology energy and chemical engineering energy and environmental engineering energy scien

Energy Solutions to Combat Global Warming 2016-10-17

this book gathers an in depth collection of 45 selected papers presented at the global conference on global warming 2014 in beijing china covering a broad variety of topics from the main principles of thermodynamics and their role in design analysis and the improvements in performance of energy systems to the potential impact of global warming on human health and wellbeing given energy production's role in contributing to global warming and climate change this work

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provides solutions to global warming from the point of view of energy incorporating multi disciplinary expertise and approaches it provides a platform for the analysis of new developments in the area of global warming and climate change as well as potential energy solutions including renewable energy energy efficiency energy storage hydrogen production co2 capture and environmental impact assessment the research and analysis presented herein will benefit international scientists researchers engineers policymakers and all others with an interest in global warming and its potential solutions

Advanced Technologies and Solutions in Industry 2013-06-27

selected peer reviewed papers from the 2013 international conference on advanced technologies and solutions in industry icatsi 2013 march 22 23 2013 taiyuan shanxi china

Proceedings of China-Europe Conference on Geotechnical Engineering 2018-08-02

this book compiles the first part of contributions to the china europe conference on geotechnical engineering held 13 16 august 2016 in vienna austria about 400 papers from 35 countries cover virtually all areas of geotechnical engineering and make this conference a truly international event the contributions are grouped into thirteen special sessions and provide an overview of the geoenvironmental research and practice in china europe and the world constitutive model micro macro relationship numerical simulation laboratory testing geotechnical monitoring instrumentation and field test foundation engineering underground construction environmental geotechnics new geomaterials and ground improvement cold regions geotechnical engineering geohazards risk assessment mitigation and prevention unsaturated soils and energy geotechnics geotechnics in transportation structural and hydraulic engineering

42 Rules for Sourcing and Manufacturing in China 2009

through over 20 extraordinary executive interviews coates captures the essence of sourcing and manufacturing in china

Concrete Solutions 2014 2014-08-18

the concrete solutions series of international conferences on concrete repair began in 2003 with a conference held in st malo france in association with insa rennes subsequent conferences have seen us partnering with the university of padua in 2009 and with tu dresden in 2011 this conference is being held for the first time in the uk in association with queen s university belfast and brings together delegates from 36 countries to discuss the latest advances and technologies in concrete repair earlier conferences were dominated by electrochemical repair but there has been an interesting shift to more unusual methods such as bacterial repair of concrete plus an increased focus on service life design aspects and modelling with idb manual

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discussion on the best techniques and the validity of existing methods repair of heritage structures is also growing in importance and a number of the papers have focused on the importance of getting this right so that we may preserve our rich cultural heritage of historic structures this book is an essential reference work for those working in the concrete repair field from engineers to architects and from students to clients

Rock Characterisation, Modelling and Engineering Design Methods 2013-05-17

rock characterisation modelling and engineering design methods contains the contributions presented at the 3rd isrm sinorock symposium shanghai china 1820 june 2013 the papers contribute to the further development of the overall rock engineering design process through the sequential linkage of the three themes of rock characterisation model

China Internet Development Report 2022

2023-10-15

this book objectively presents the achievements status quo and trends of china s internet development in 2022 systematically summarizes the major experiences of china s internet development and deeply analyses the strategic planning policies and measures and development achievements level and trends in china in terms of eight aspects i e information infrastructure digital economy e government digital society cyber content cybersecurity cyber law international cyberspace governance and exchange and cooperation this book further optimizes the index system of china s internet development and comprehensively evaluates the work of cybersecurity and informatisation in 31 provinces autonomous regions municipalities directly under the central government excluding hong kong macao and taiwan across the country from six dimensions so as to reflect the internet development level in china and various regions in a comprehensive accurate and objective way this book collects the latest research results on china s internet development and selects the most recent cases and reliable data with

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diverse topics and in depth discussions this book is of great significance to those involved in the internet field in government departments internet enterprises scientific research institutions and universities who hope to fully understand china s internet development

Advanced Materials, Mechanical and Structural Engineering 2016-04-14

in the last decades advanced materials and mechanics has become a hot topic in engineering recent trends show that the application of nanotechnology and environmental science together with advanced materials and mechanics are playing an increasingly important role in engineering applications for catching up with this current trend this boo

Risk, Reliability and Safety: Innovating Theory

and Practice *2016-11-25*

risk reliability and safety contains papers describing innovations in theory and practice contributed to the scientific programme of the european safety and reliability conference esrel 2016 held at the university of strathclyde in glasgow scotland 25 29 september 2016 authors include scientists academics practitioners regulators and other key individuals with expertise and experience relevant to specific areas papers include domain specific applications as well as general modelling methods papers cover evaluation of contemporary solutions exploration of future challenges and exposition of concepts methods and processes topics include human factors occupational health and safety dynamic and systems reliability modelling maintenance optimisation uncertainty analysis resilience assessment risk and crisis management

14th International Symposium on Process Systems

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Engineering 2022-06-24

14th international symposium on process systems engineering volume 49 brings together the international community of researchers and engineers interested in computing based methods in process engineering the conference highlights the contributions of the pse community towards the sustainability of modern society and is based on the 2021 event held in tokyo japan july 1 23 2021 it contains contributions from academia and industry establishing the core products of pse defining the new and changing scope of our results and covering future challenges plenary and keynote lectures discuss real world challenges globalization energy environment and health and contribute to discussions on the widening scope of pse versus the consolidation of the core topics of pse highlights how the process systems engineering community contributes to the sustainability of modern society establishes the core products of process systems engineering defines the future challenges of process systems engineering

Progress in Mine Safety Science and Engineering II 2014-02-11

as societies continue to grow and develop the demand for energy has increased worldwide in china coal is still one of the principal energy resources and it is expected that more coal mining projects are needed in the future as mining operations continue to increase their production rates and discover more ore reserves mine safety issues have b

Frontiers of Advanced Materials and Engineering Technology II 2014-04-09

collection of selected peer reviewed papers from the 2014 international conference on frontiers of advanced materials and engineering technology famet 2014 march 28 29 2014 hongkong the 447 papers are grouped as follows chapter 1 materials engineering and science chapter 2 mechanical construction manufacturing engineering and applied research chapter 3 information technologies control

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monitoring and data processing chapter 4 product design management and environmental research chapter 5 bio and medical research

Mechanical Engineering and Materials 2021-03-24

this book gathers the latest advances innovations and applications in the field of mechanical engineering as presented by leading international researchers and engineers at the 2020 international conference on mechanical engineering and materials icmem held in beijing china on october 16 17 2020 icmem covers all aspects of mechanical engineering and material sciences such as computer aided design virtual design and design visualization intelligent design usability design automobile structure human machine interface design manufacturing engineering aerospace engineering automation and robotics micro machining mems nems composite materials biomaterials smart materials superconducting materials materials properties and applications materials manufacturing nanotechnology nano materials and nano composites etc the contributions which were selected by means of a rigorous international peer review process highlight numerous exciting ideas that will spur novel research directions and poster

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multidisciplinary collaborations

Civil Engineering and Energy-Environment Vol 2

2023-06-16

civil engineering and energy environment focuses on the research of civil engineering environment resources and energy materials this proceedings gathers the most cutting edge research and achievements aiming to provide scholars and engineers with preferable research direction and engineering solution as reference subjects in this proceedings include engineering structure environmental protection materials architectural environment environment resources energy storage building electrical engineering the works of this proceedings will promote development of civil engineering and environment engineering thereby promote scientific information interchange between scholars from top universities research centers and high tech enterprises working all around the world

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Fluid Flow in Fractured Porous Media 2019-09-30

the fluid flow in fracture porous media plays a significant role in the assessment of deep underground reservoirs such as through CO₂ sequestration enhanced oil recovery and geothermal energy development many methods have been employed from laboratory experimentation to theoretical analysis and numerical simulations and allowed for many useful conclusions this special issue aims to report on the current advances related to this topic this collection of 58 papers represents a wide variety of topics including on granite permeability investigation grouting coal mining roadway and concrete to name but a few we sincerely hope that the papers published in this special issue will be an invaluable resource for our readers

China, Trust and Digital Supply Chains 2022-09-01

china trust and digital supply chains presents a critical reflection on blockchain technologies in the context of their adoption manual cost

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and the world that china is engaged in and shaping approaching the issues of blockchain technology adoption and development on china s own terms is critical if policy makers and others are to make effective sense of one of the key dynamics shaping the next few decades of the global landscape the work challenges the trust trope that dominates much discussion of blockchain technology s application it argues contrary to the predominant trust trope that blockchain is not about trust at all it shows that china s re imagining of the 21st century global order is premised on driving intensified cross border economic interactions without the presupposition of trust and blockchain technology makes that possible it also explores the paradox of technological decentralisation being taken up with vigour by a centralist polity the role of blockchain technology as a critical condition of existence for the successful globalisation of china s digital currency initiative and the need to devise governance institutions that are multilateral in nature to reflect the multi polar nature of decentralised information systems with domestic and cross border permutations this book is of significant interest to readers of political economy public policy blockchain technology and chinese studies

Fractured Vuggy Carbonate Reservoir Simulation

2017-08-08

this book solves the open problems in fluid flow modeling through the fractured vuggy carbonate reservoirs fractured vuggy carbonate reservoirs usually have complex pore structures which contain not only matrix and fractures but also the vugs and cavities since the vugs and cavities are irregular in shape and vary in diameter from millimeters to meters modeling fluid flow through fractured vuggy porous media is still a challenge the existing modeling theory and methods are not suitable for such reservoir it starts from the concept of discrete fracture and fracture vug networks model and then develops the corresponding mathematical models and numerical methods including discrete fracture model discrete fracture vug model hybrid model and multiscale models based on these discrete porous media models some equivalent medium models and methods are also discussed all the modeling and methods shared in this book offer the key recent solutions into this area

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Wave Propagation in Drilling, Well Logging and Reservoir Applications 2014-09-19

wave propagation is central to all areas of petroleum engineering e g drilling vibrations mwd mud pulse telemetry swab surge geophysical ray tracing ocean and current interactions electromagnetic wave and sonic applications in the borehole but rarely treated rigorously or described in truly scientific terms even for a single discipline wilson chin an mit and caltech educated scientist who has consulted internationally provides an integrated comprehensive yet readable exposition covering all of the cited topics offering insights algorithms and validated methods never before published a must on every petroleum engineering bookshelf in particular the book delivers drillstring vibrations models coupling axial torsional and lateral motions that predict rate of penetration bit bounce and stick slip as they depend on rock bit interaction and bottomhole assembly properties explains why catastrophic lateral vibrations at the neutral point cannot be observed from the surface even in vertical wells but providing a proven method to avoid them demonstrates why formation

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principle of least time used in geophysics applies to non dissipative media only but using the kinematic wave theory developed at mit derives powerful methods applicable to general attenuative inhomogeneous media develops new approaches to mud acoustics and applying them to mwd telemetry modeling and strong transients in modern swab surge applications derives new algorithms for borehole geophysics interpretation e g rh and rv in electromagnetic wave and permeability in stoneley waveform analysis and outlines many more applications e g wave loadings on offshore platforms classical problems in wave propagation and extensions to modern kinematic wave theory these disciplines important to all field oriented activities are not treated as finite element applications that are simply gridded number crunched and displayed but as scientific disciplines deserving of clear explanation general results are carefully motivated derived and applied to real world problems with results demonstrating the importance and predictive capabilities of the new methods

Desalination 2017-08-30

increasing population and environmental pollution are the main stress on freshwater sources on the other hand freshwater needs of human being increase dramatically every day from agriculture to industry and from household to recreation we need freshwater in the near future saltwater and brackish water bodies may be the main source of freshwater for our planet desalination phenomena are now being implemented with increasing interest the book on desalination provides a valuable scientific contribution on freshwater production from saltwater sources in this book necessary theoretical knowledge and experimental results of different desalination processes are presented

China Satellite Navigation Conference (CSNC) 2015 Proceedings: Volume I 2015-04-21

china satellite navigation conference csnc 2015 proceedings presents selected research papers from csnc2015 held during 13th 15th may in xian china the theme of csnc2015 is opening up cooperation and innovation

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win these papers discuss the technologies and applications of the global navigation satellite system gnss and the latest progress made in the china beidou system bds especially they are divided into 10 topics to match the corresponding sessions in csnc2015 which broadly covered key topics in gnss readers can learn about the bds and keep abreast of the latest advances in gnss techniques and applications sun jiadong is the chief designer of the compass bds and the academician of chinese academy of sciences cas liu jingnan is a professor at wuhan university fan shiwei is a researcher at china satellite navigation office lu xiaochun is an academician of chinese academy of sciences cas

Scientific and Technical Aerospace Reports **1992-03**

this book presents recent developments in nonlinear dynamics with an emphasis on complex systems the volume illustrates new methods to characterize the solutions of nonlinear dynamics associated with complex systems this book contains the following topics new solutions

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of the functional equations optimization algorithm for traveling salesman problem fractals control fractional calculus models fractional discretization local fractional partial differential equations and their applications and solutions of fractional kinetic equations

Mathematical Methods in Engineering 2018-08-02

this book constitutes the refereed post conference proceedings of the 8th ifip wg 5 14 international conference on computer and computing technologies in agriculture ccta 2014 held in beijing china in september 2014 the 81 revised papers included in this volume were carefully selected from 216 submissions they cover a wide range of interesting theories and applications of information technology in agriculture including intelligent sensing monitoring and automatic control technology key technology and models of the internet of things intelligent technology for agricultural equipment computer vision computer graphics and virtual reality computer simulation optimization and modeling cloud computing and agricultural applications agricultural big data decision support systems and expert systems 39

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technology and precision agriculture quality and safety of agricultural products detection and tracing technology and agricultural electronic commerce technology

Computer and Computing Technologies in Agriculture VIII 2015-09-29

the 2016 international conference on automotive engineering mechanical and electrical engineering aemee 2016 was held december 9 11 2016 in hong kong china aemee 2016 was a platform for presenting excellent results and new challenges facing the fields of automotive mechanical and electrical engineering automotive mechanical and electrical engineering brings together a wide range of contributions from industry and governmental experts and academics experienced in engineering design and research papers have been categorized under the following headings automotive engineering and rail transit engineering mechanical manufacturing process engineering network communications and applied information technologies technologies in energy and power cell engines generators electric vehicles system test and diagnosis

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monitoring and identification video and image processing applied and computational mathematics methods algorithms and optimization technologies in electrical and electronic control and automation industrial production manufacturing management and logistics

Journal of Chemical Industry and Engineering **(China) 1982**

in the rapid development of global economics energy environmental ecosystem are recognized as important factors for sustainable development in human society the application of measurement and control technology also play a very important role in the utilization and protection of energy and the environment 2015 international conference on energy environmental sustainable ecosystem development eesed 2015 is a multidisciplinary international conference that provides a platform for scientists engineers and researchers worldwide to share their ideas and present solutions to energy environmental sustainable ecosystem development issues

Automotive, Mechanical and Electrical Engineering 2017-06-26

in the rapid development of global economics energy environmental ecosystem are recognized as important factors for sustainable development in human society the application of measurement and control technology also play a very important role in the utilization and protection of energy and the environment 2015 international conference on energy environmental sustainable ecosystem development eesed 2015 is a multidisciplinary international conference that provides a platform for scientists engineers and researchers worldwide to share their ideas and present solutions to energy environmental sustainable ecosystem development issues contents energy science and technology environmental science and engineering renewable energy and sustainable development energy environmental sustainable ecological development infrastructure management and environment readership researchers academics professionals and graduate students in environmental science keywords energy science and technology environmental science and engineering renewable energy and sustainable

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development energy environmental sustainable ecological development

***ENERGY, ENVIRONMENTAL and SUSTAINABLE ECOSYSTEM
DEVELOPMENT - INTERNATIONAL CONFERENCE on
ENERGY, ENVIRONMENTAL and SUSTAINABLE ECOSYSTEM
DEVELOPMENT (EESD 2015) 2015-12-02***

composite materials have aroused a great interest over the last few decades as proven by the huge number of scientific papers and industrial progress the increase in the use of composite structures in different engineering practices justify the present international meeting where researches from every part of the globe can share and discuss the recent advancements regarding the use of structural components within advanced applications such as buckling vibrations repair reinforcements concrete composite laminated materials and more recent metamaterials studies about composite structures are truly multidisciplinary and the given contributions can help other researches and professional engineers in their own field this

conference is suitable as a reference for engineers and scientists working in the professional field in the industry and the academia and it gives the possibility to share recent advancements in different engineering practices to the outside world this book aims to collect selected plenary and key note lectures of this international conference for this reason the establishment of this 20th edition of international conference on composite structures has appeared appropriate to continue what has been begun during the previous editions iccs wants to be an occasion for many researchers from each part of the globe to meet and discuss about the recent advancements regarding the use of composite structures sandwich panels nanotechnology bio composites delamination and fracture experimental methods manufacturing and other countless topics that have filled many sessions during this conference as a proof of this event which has taken place in paris france selected plenary and key note lectures have been collected in the present book

Energy, Environmental & Sustainable Ecosystem Development *2015-12-02*

this collection covers new aspects of numerical methods in applied mathematics engineering and health sciences it provides recent theoretical developments and new techniques based on optimization theory partial differential equations pdes mathematical modeling and fractional calculus that can be used to model and understand complex behavior in natural phenomena specific topics covered in detail include new numerical methods for nonlinear partial differential equations global optimization unconstrained optimization detection of hiv protease modelling with new fractional operators analysis of biological models and stochastic modelling

ICCS20 - 20th International Conference on Composite Structures *2017-07-24*

everyone's guide forecast solution introduces new easy to use statistical methods so that the reader can answer the questions how

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long will nuclear peace tend to continue and what can be done to extend it further dietrich fischer a past macarthur fellow at princeton was emphatic this is an original highly readable contribution to the most important issue facing humanity today surviving the nuclear threat jeanes combines lucid common sense with mathematical rigor in this landmark work anyone with an interest in having a future should read this work similarly another distinguished scholar author in the field declared it was more than interesting it was completely fascinating the general literate reader can assess when a nuclear use small or otherwise would tend to occur at probabilities from 1 to 99 9 what precisely can be done to forestall such use jeanes debunks deterrence theory illustrates consequences of proliferation provides a unified explanation for warfare conventional nuclear a comprehensive work ethical political historical analytical 100 graphs tables 1 500 footnotes toll free 24 hours a day credit card line 800 448 3330 publisher 800 446 0467

Numerical Solutions of Realistic Nonlinear Phenomena 2020-02-19

this book is devoted to taking a lead in establishing a multi disciplinary and inter disciplinary platform for exchanging fresh thinking in the field of strategic studies the book gathers invited reports from various prestigious scholars from home and abroad the aim of this book is threefold firstly to provide a comprehensive overview of the emerging evolution in international and regional orders as well as the recent strategy adjustments among major world powers secondly to discuss major strategic issues facing china and to further propose the chinese wisdom and a chinese strategic approach to sustaining peace and development and to reaching a benign international interaction between china and other entities in the world such as achieving cooperation and mutual benefits between china and the world thirdly to investigate the key factors in enhancing china s domestic governance such as strengthening state political capacity national environmental governance etc the editorial group selected 10 high quality reports to disseminate the findings and promote future

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research collaboration in this area this timely book offers both theoretical insights and rigorous quantitative method that impact china s peaceful rise in the international arena

Forecast and Solution 1996

delivering modernity childbirth in republican china 1911 1949 is the study of a pivotal period in which traditional midwifery marked by private unregulated old style midwives was transformed into modern midwifery through the adoption of a highly medicalized and state sponsored birth model that is standard in urban china today in the twentieth century biomedical technologies altered the process of childbirth on virtually every level what had been a matter of private interest focusing on the family and lineage became a national priority a symbol of the new citizen who would participate in the creation of a revitalized nation this transformation of reproduction coalesces with the broader story of china s twentieth century revolutions marked by an emphasis on science and modernity the roles of the state and of western medical personnel were paramount in affecting these changes but equally important are the intense social and cultural shifts that

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occurred simultaneously the dominant themes of reproduction in twentieth century china are characterized by expanding state involvement shifting gender roles escalating consumption patterns accompanying the commercialization of private lives and the increasing medicalization of the birth process

Report of Strategic Studies in China (2018) **2019-08-10**

written by a world renowned theoretical physicist introduction to statistical physics second edition clarifies the properties of matter collectively in terms of the physical laws governing atomic motion this second edition expands upon the original to include many additional exercises and more pedagogically oriented discussions that fully explain the concepts and applications the book first covers the classical ensembles of statistical mechanics and stochastic processes including brownian motion probability theory and the fokker planck and langevin equations to illustrate the use of statistical methods beyond the theory of matter the author discusses entropy in information

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theory brownian motion in the stock market and the monte carlo method in computer simulations the next several chapters emphasize the difference between quantum mechanics and classical mechanics the quantum phase applications covered include fermi statistics and semiconductors and bose statistics and bose einstein condensation the book concludes with advanced topics focusing on the ginsburg landau theory of the order parameter and the special kind of quantum order found in superfluidity and superconductivity assuming some background knowledge of classical and quantum physics this textbook thoroughly familiarizes advanced undergraduate students with the different aspects of statistical physics this updated edition continues to provide the tools needed to understand and work with random processes

Childbirth in Republican China 2011-09-16

the evaluation of in situ rock stress is not only important in the exploration and engineering involving rock masses for mining hydropower tunneling oil and gas production and stone quarrying but also in the geodynamics and earthquake prediction the methods of determining these stresses for shallow crust in the engineering

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practice including

Introduction to Statistical Physics, Second Edition 2009-09-21

this volume contains the edited technical presentations of prolmat 2006 the ifip tc5 international conference held on june 15 17 2006 at the shanghai university in china the papers collected here concentrate on knowledge strategies in product life cycle and bring together researchers and industrialists with the objective of reaching a mutual understanding of the scientific industry dichotomy while facilitating the transfer of core research knowledge to core industrial competencies

Rock Stress and Earthquakes 2010-07-29

volume is indexed by thomson reuters cpci s was the collection of peer reviewed papers covers all aspects of mechanics and materials theoretical experimental and computational specific topics of interest

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include mechanics of materials rock and soil mechanics fluid and heat mechanics machine parts and mechanisms composites micro nano materials steel and alloys and building materials and other related topics

Knowledge Enterprise: Intelligent Strategies in Product Design, Manufacturing, and Management

2006-08-31

biomass can be used to produce renewable electricity thermal energy transportation fuels biofuels and high value functional chemicals as an energy source biomass can be used either directly via combustion to produce heat or indirectly after it is converted to one of many forms of bioenergy and biofuel via thermochemical or biochemical pathways the conversion of biomass can be achieved using various advanced methods which are broadly classified into thermochemical conversion biochemical conversion electrochemical conversion and so on advanced development technologies and processes are able to convert biomass into alternative energy sources in solid e g charcoal biochar and rdf liquid biodiesel algae biofuel bioethanol and pyrolysis and

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liquefaction bio oils and gaseous e g biogas syngas and biohydrogen forms because of the merits of biomass energy for environmental sustainability biofuel and bioenergy technologies play a crucial role in renewable energy development and the replacement of chemicals by highly functional biomass this book provides a comprehensive overview and in depth technical research addressing recent progress in biomass conversion processes it also covers studies on advanced techniques and methods for bioenergy and biofuel production

Applied Mechanics and Materials I 2013-01-11

volume is indexed by thomson reuters cpci s was this special volume presents discusses and reviews the latest advances in the science and technology of high performance ceramics the editors received more than 700 contributions from which following a strict peer review process more than 598 manuscripts were chosen for inclusion in this collection

Biomass Processing for Biofuels, Bioenergy and Chemicals 2020-05-23

these two volumes constitute the refereed proceedings of the third asian conference on computer vision accv 98 held in hong kong china in january 1998 the volumes present together a total of 58 revised full papers and 112 revised posters selected from over 300 submissions the papers are organized in topical sections on biometry physics based vision color vision robot vision and navigation ocr and applications low level processing active vision face and hand posture recognition segmentation and grouping computer vision and virtual reality motion analysis and object recognition and modeling

High-Performance Ceramics V 2008-02-11

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Computer Vision - ACCV'98 1998

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