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Safety and Reliability. Theory and Applications - Marko Cepin 2017-06-14

Safety and Reliability - Theory and Applications contains the contributions presented at the 27th European Safety and Reliability Conference (ESREL 2017, Portorož, Slovenia, June 18-22, 2017). The book covers a wide range of topics, including: • Accident and Incident modelling • Economic Analysis in Risk Management • Foundational Issues in Risk Assessment and Management • Human Factors and Human Reliability • Maintenance Modeling and Applications • Mathematical Methods in Reliability and Safety • Prognostics and System Health Management • Resilience Engineering • Risk Assessment • Risk Management • Simulation for Safety and Reliability Analysis • Structural Reliability • System Reliability, and • Uncertainty Analysis. Selected special sessions include contributions on: the Marie Skłodowska-Curie innovative training network in structural safety; risk approaches in insurance and finance sectors; dynamic reliability and probabilistic safety assessment; Bayesian and statistical methods, reliability data and testing; organizational factors and safety culture; software reliability and safety; probabilistic methods applied to power systems; socio-technical-economic systems; advanced safety assessment methodologies: extended Probabilistic Safety Assessment; reliability; availability; maintainability and safety in railways: theory & practice; big data risk analysis and management, and model-based reliability and safety engineering. Safety and Reliability - Theory and Applications will be of

interest to professionals and academics working in a wide range of industrial and governmental sectors including: Aeronautics and Aerospace, Automotive Engineering, Civil Engineering, Electrical and Electronic Engineering, Energy Production and Distribution, Environmental Engineering, Information Technology and Telecommunications, Critical Infrastructures, Insurance and Finance, Manufacturing, Marine Industry, Mechanical Engineering, Natural Hazards, Nuclear Engineering, Offshore Oil and Gas, Security and Protection, Transportation, and Policy Making.

The Future of Higher Education in the Middle East and Africa - Habib M. Fardoun 2018-03-26
This book addresses some of the challenges posed by the globalization of higher education. It examines the emergence and resulting challenges of English as Lingua Franca (ELF) and of the decision to use English as the Medium of Instruction (EMI) as part of a strategic policy of internationalization. It looks at survival challenges caused by globalization and expansion, the diversity challenge, the concept of marginality and how marginality can lead to creativity, teaching and encouraging entrepreneurialism, the tools needed for internationalizing higher education in developing countries, innovative approaches, the intelligent use of technology, and finally, the value of non-constraint engagement in driving teaching and course quality improvements. The expansion of higher education and the increasingly international body of students and staff continue to inspire and drive the development of global higher education systems.

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Whilst these systems began locally, many are now engaging with the challenges of retaining their local flavour whilst embracing the march of globalisation. The challenge is to find local solutions that also meet the requirements of the rapid development of what might be termed the 'massification' of international higher education. This book reflects these contemporary challenges through its variety of topics taken from countries as diverse as Hong Kong, Panama, South Africa, USA and Saudi Arabia. The topics are as diverse as some of the local solutions but each chapter represents a response to a rapidly changing global landscape. Network and System Security - Man Ho Au 2014-10-09

This book constitutes the proceedings of the 8th International Conference on Network and System Security, NSS 2014, held in Xi'an, China, in October 2014. The 35 revised full papers and 12 revised short papers presented were carefully reviewed and selected from 155 initial submissions. The papers are organized in topical sections on cloud computing, access control, network security, security analysis, public key cryptography, system security, privacy-preserving systems and biometrics, and key management and distribution.

AutoCAD 2014 and AutoCAD LT 2014 - Donnie Gladfelter 2013-07-29

Presents a step-by-step tutorial covering the features of AutoCAD and AutoCAD LT, with information on such topics as grouping, elevations, hatches, lighting, rendering, and developing 3D models.

Progress in Physics, vol. 4/2014 - Dmitri Rabounski

The Journal on Advanced Studies in Theoretical and Experimental Physics, including Related Themes from Mathematics

New Perspectives on Computer Concepts 2014: Brief - June Jamrich Parsons 2013-03-05

Go beyond computing basics with the award-winning NEW PERSPECTIVES ON COMPUTER CONCEPTS. Designed to get you up-to-speed on essential computer literacy skills, this market leading text goes deeper, providing technical and practical information relevant to everyday life. NEW PERSPECTIVES ON COMPUTER CONCEPTS 2014 incorporates significant technology trends that affect computing and

everyday life; such as concerns for data security, personal privacy, online safety, controversy over digital rights management, interest in open source software and portable applications, and more. In addition, coverage of Microsoft Windows 8 and Office 2013 will introduce you to the exciting new features of Microsoft's next generation of software. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

The Oxford Handbook of the Economics of Networks - Yann Bramoullé 2016-03-01

The Oxford Handbook of the Economics of Networks represents the frontier of research into how and why networks they form, how they influence behavior, how they help govern outcomes in an interactive world, and how they shape collective decision making, opinion formation, and diffusion dynamics. From a methodological perspective, the contributors to this volume devote attention to theory, field experiments, laboratory experiments, and econometrics. Theoretical work in network formation, games played on networks, repeated games, and the interaction between linking and behavior is synthesized. A number of chapters are devoted to studying social process mediated by networks. Topics here include opinion formation, diffusion of information and disease, and learning. There are also chapters devoted to financial contagion and systemic risk, motivated in part by the recent financial crises. Another section discusses communities, with applications including social trust, favor exchange, and social collateral; the importance of communities for migration patterns; and the role that networks and communities play in the labor market. A prominent role of networks, from an economic perspective, is that they mediate trade. Several chapters cover bilateral trade in networks, strategic intermediation, and the role of networks in international trade. Contributions discuss as well the role of networks for organizations. On the one hand, one chapter discusses the role of networks for the performance of organizations, while two other chapters discuss managing networks of consumers and pricing in the presence of network-based spillovers. Finally, the authors discuss the internet as a network with attention

to the issue of net neutrality.

Mathematical Foundations of Computer Science 2014 - Ersébet Csuhaj-Varjú 2014-08-12

This two volume set LNCS 8634 and LNCS 8635 constitutes the refereed conference proceedings of the 39th International Symposium on Mathematical Foundations of Computer Science, MFCS 2014, held in Budapest, Hungary, in August 2014. The 95 revised full papers presented together with 6 invited talks were carefully selected from 270 submissions. The focus of the conference was on following topics: Logic, Semantics, Automata, Theory of Programming, Algorithms, Complexity, Parallel and Distributed Computing, Quantum Computing, Automata, Grammars and Formal Languages, Combinatorics on Words, Trees and Games.

Biennial State-of-the-Art Sensors Technology in Australia 2019-2020 - Edith Chow 2021-04-27

Recent developments in novel materials, sensing principles and signal processing are paving the way for new types of analytical sensors, offering improved sensing performance and practicality. Such advancements will provide accurate and real-time analytical information in the environmental, food, and healthcare sectors to better guide decision-making. For sensors to be commercially viable, the miniaturisation and integration of components for rapid, automated, in-field detection and diagnosis need to be considered. This book highlights state-of-the-art sensors technology in Australia through original contributions and reviews.

Performance Optimization Techniques in Analog, Mixed-Signal, and Radio-Frequency Circuit Design - Fakhfakh, Mourad 2014-10-31

Improving the performance of existing technologies has always been a focal practice in the development of computational systems. However, as circuitry is becoming more complex, conventional techniques are becoming outdated and new research methodologies are being implemented by designers. Performance Optimization Techniques in Analog, Mix-Signal, and Radio-Frequency Circuit Design features recent advances in the engineering of integrated systems with prominence placed on methods for maximizing the functionality of these systems. This book emphasizes prospective trends in the field and is an essential reference source for

researchers, practitioners, engineers, and technology designers interested in emerging research and techniques in the performance optimization of different circuit designs.

Department of Homeland Security Appropriations for 2016 - United States. Congress. House. Committee on Appropriations. Subcommittee on Homeland Security 2015

Encyclopedia of Information Science and Technology, Third Edition - Khosrow-Pour, Mehdi 2014-07-31

"This 10-volume compilation of authoritative, research-based articles contributed by thousands of researchers and experts from all over the world emphasized modern issues and the presentation of potential opportunities, prospective solutions, and future directions in the field of information science and technology"-- Provided by publisher.

Advances in Knowledge Discovery and Data Mining - Jinho Kim 2017-04-25

This two-volume set, LNAI 10234 and 10235, constitutes the thoroughly refereed proceedings of the 21st Pacific-Asia Conference on Advances in Knowledge Discovery and Data Mining, PAKDD 2017, held in Jeju, South Korea, in May 2017. The 129 full papers were carefully reviewed and selected from 458 submissions. They are organized in topical sections named: classification and deep learning; social network and graph mining; privacy-preserving mining and security/risk applications; spatio-temporal and sequential data mining; clustering and anomaly detection; recommender system; feature selection; text and opinion mining; clustering and matrix factorization; dynamic, stream data mining; novel models and algorithms; behavioral data mining; graph clustering and community detection; dimensionality reduction.

Graph-Theoretic Concepts in Computer Science - Dieter Kratsch 2014-10-20

This book constitutes the thoroughly refereed post-conference proceedings of the 40th International Workshop on Graph-Theoretic Concepts in Computer Science, WG 2014, held in Nouan-le-Fuzelier, France, in June 2014. The 32 revised full papers presented were carefully reviewed and selected from 80 submissions. The book also includes two invited papers. The

papers cover a wide range of topics in graph theory related to computer science, such as design and analysis of sequential, parallel, randomized, parameterized and distributed graph and network algorithms; structural graph theory with algorithmic or complexity applications; computational complexity of graph and network problems; graph grammars, graph rewriting systems and graph modeling; graph drawing and layouts; computational geometry; random graphs and models of the web and scale-free networks; and support of these concepts by suitable implementations and applications.

LATIN 2014: Theoretical Informatics -

Alberto Pardo 2014-03-24

This book constitutes the refereed proceedings of the 11th Latin American Symposium on Theoretical Informatics, LATIN 2014, held in Montevideo, Uruguay, in March/April 2014. The 65 papers presented together with 5 abstracts were carefully reviewed and selected from 192 submissions. The papers address a variety of topics in theoretical computer science with a certain focus on complexity, computational geometry, graph drawing, automata, computability, algorithms on graphs, algorithms, random structures, complexity on graphs, analytic combinatorics, analytic and enumerative combinatorics, approximation algorithms, analysis of algorithms, computational algebra, applications to bioinformatics, budget problems and algorithms and data structures.

Serving Higher Purposes - Ihron Rensburg
2020-11-05

Universities of the 21st century and beyond must be about teaching, learning, research excellence, creativity and innovation as much as they must be about enabling the destiny of students, communities and nations to realize their potential. UJ succeeded in her vision and responsibilities to transform the divisions, prejudices and limitations that often restrain the advancement of society. The story of UJ's transition to an inclusive, diverse, dynamic, bold and purposeful institution of learning demands to be read by everyone, South African, African and beyond. It is a story of how to be an object rather than the subject of history, while dynamically shaping our shared futures, laying a solid foundation for future generations to be advocates and architects for social change and

cohesion. It is a story of courageous and visionary leadership. The book offers our nation profound lessons in leadership that should enrich all our efforts to transform institutions in a sustainable way, to play a meaningful role in building ONE NATION. - DR WENDY LUHABE, Economic Activist, Social Entrepreneur, First Chancellor of the University of Johannesburg
ECAI 2014 - T. Schaub 2014-08

The role of artificial intelligence (AI) applications in fields as diverse as medicine, economics, linguistics, logical analysis and industry continues to grow in scope and importance. AI has become integral to the effective functioning of much of the technical infrastructure we all now take for granted as part of our daily lives. This book presents the papers from the 21st biennial European Conference on Artificial Intelligence, ECAI 2014, held in Prague, Czech Republic, in August 2014. The ECAI conference remains Europe's principal opportunity for researchers and practitioners of Artificial Intelligence to gather and to discuss the latest trends and challenges in all subfields of AI, as well as to demonstrate innovative applications and uses of advanced AI technology. Included here are the 158 long papers and 94 short papers selected for presentation at the conference. Many of the papers cover the fields of knowledge representation, reasoning and logic as well as agent-based and multi-agent systems, machine learning, and data mining. The proceedings of PAIS 2014 and the PAIS System Demonstrations are also included in this volume, which will be of interest to all those wishing to keep abreast of the latest developments in the field of AI.

Introduction to Ecological Sampling - Bryan F.J. Manly 2014-10-20

An Easy-to-Understand Treatment of Ecological Sampling Methods and Data Analysis Including only the necessary mathematical derivations, Introduction to Ecological Sampling shows how to use sampling procedures for ecological and environmental studies. It incorporates both traditional sampling methods and recent developments in environmental and ecological sampling methods. After an introduction, the book presents standard sampling methods and analyses. Subsequent chapters delve into specialized topics written by well-known

researchers. These chapters cover adaptive sampling methods, line transect sampling, removal and change-in-ratio methods, plotless sampling, mark-recapture sampling of closed and open populations, occupancy models, sampling designs for environmental modeling, and trend analysis. The book explains the methods as simply as possible, keeping equations and their derivations to a minimum. It provides references to important, more advanced sampling methods and analyses. It also directs readers to computer programs that can be used to perform the analyses. Accessible to biologists, the text only assumes a basic knowledge of statistical methods. It is suitable for an introductory course on methods for collecting and analyzing ecological and environmental data.

The Origin and Growth of Geography as a discipline at South Africa Universities - Gustav Visser 2016-09-20

NASA Formal Methods - Jyotirmoy V. Deshmukh 2022-05-19

This book constitutes the proceedings of the 14th International Symposium on NASA Formal Methods, NFM 2022, held in Pasadena, USA, during May 24-27, 2022. The 33 full and 6 short papers presented in this volume were carefully reviewed and selected from 118 submissions. The volume also contains 6 invited papers. The papers deal with advances in formal methods, formal methods techniques, and formal methods in practice. The focus on topics such as interactive and automated theorem proving; SMT and SAT solving; model checking; use of machine learning and probabilistic reasoning in formal methods; formal methods and graphical modeling languages such as SysML or UML; usability of formal method tools and application in industry, etc.

Econometrics and Income Inequality - Martin Biewen 2018-11-26

This book is a printed edition of the Special Issue "Econometrics and Income Inequality" that was published in *Econometrics*

[Haptics: Neuroscience, Devices, Modeling, and Applications](#) - Malika Auvray 2014-10-14

The two-volume set LNCS 8618 and 8619 constitutes the refereed proceedings of the 9th International Conference EuroHaptics 2014,

held in Versailles, France, in June 2014. The 118 papers (36 oral presentations and 82 poster presentations) presented were carefully reviewed and selected from 183 submissions. Furthermore, 27 demos were exhibited, each of them resulting in a short paper included in the volumes. These proceedings reflect the multidisciplinary nature of EuroHaptics and cover topics such as human-computer interaction, human-robot interactions, neuroscience, perception and psychophysics, biomechanics and motor control, modelling and simulation; and a broad range of applications in medicine, rehabilitation, art, and design.

Information technology project managers' competencies: An analysis of performance and personal competencies - Carl Marnewick 2016-12-31

The purpose of this book is to shed light on the performance and personal competencies of information technology (IT) project managers in South Africa. Predictive models are built to determine what project managers consider the crucial competencies they should possess to deliver an IT project successfully. This investigation takes place in the context of poor IT project success rates globally and, in particular, in South Africa. This novel research seeks to extend the debate on project success beyond what constitutes success or failure, but seeks to find clarity in what IT project managers believe are the essential competencies in practice. This quantitative research gathered data by way of an online survey based on literature regarding the Project Management Competency Development Framework (PMCDF). The population consisted of IT project managers in South Africa. Four hundred and two respondents chose to share their insights. Through the use of descriptive and multivariate statistics, major competency factors were identified. These factors were used in structural equation modelling to build various validated predictive models. This book contributes to the current body of knowledge by uncovering the competencies that IT project managers consider themselves competent in. The structural equation models indicated predictors of perceived competence by IT project managers and where these perceived competencies differ from literature. Twelve managerial implications

are highlighted in the final chapter that seek to draw the myriad threads together into a coherent summary. It is apparent that IT project managers do not consider the PMCDF important in its entirety, but instead choose to focus on certain competencies.

International Handbook of Early Childhood Education - Marilyn Fleer 2017-10-10

This international handbook gives a comprehensive overview of findings from longstanding and contemporary research, theory, and practices in early childhood education in the Northern and Southern hemispheres. The first volume of the handbook addresses theory, methodology, and the research activities and research needs of particular regions. The second volume examines in detail innovations and longstanding programs, curriculum and assessment, and conceptions and research into child, family and communities. The two volumes of this handbook address the current theory, methodologies and research needs of specific countries and provide insight into existing global similarities in early childhood practices. By paying special attention to what is happening in the larger world contexts, the volumes provide a representative overview of early childhood education practices and research, and redress the current North-South imbalance of published work on the subject.

[High Performance Computing for Computational Science -- VECPAR 2014](#) - Michel Daydé 2015-04-20

This book constitutes the thoroughly refereed post-conference proceedings of the 11th International Conference on High Performance Computing for Computational Science, VECPAR 2014, held in Eugene, OR, USA, in June/July 2014. The 25 papers presented were carefully reviewed and selected of numerous submissions. The papers are organized in topical sections on algorithms for GPU and manycores, large-scale applications, numerical algorithms, direct/hybrid methods for solving sparse matrices, performance tuning. The volume also contains the papers presented at the 9th International Workshop on Automatic Performance Tuning.

Applied Dynamics - Haim Baruh 2014-12-12
Gain a Greater Understanding of How Key Components Work Using realistic examples from

everyday life, including sports (motion of balls in air or during impact) and vehicle motions, Applied Dynamics emphasizes the applications of dynamics in engineering without sacrificing the fundamentals or rigor. The text provides a detailed analysis of the principles of dynamics and vehicle motions analysis. An example included in the topic of collisions is the famous "Immaculate Reception," whose 40th anniversary was recently celebrated by the Pittsburgh Steelers. Covers Stability and Response Analysis in Depth The book addresses two- and three-dimensional Newtonian mechanics, it covers analytical mechanics, and describes Lagrange's and Kane's equations. It also examines stability and response analysis, and vibrations of dynamical systems. In addition, the text highlights a developing interest in the industry—the dynamics and stability of land vehicles. Contains Lots of Illustrative Examples In addition to the detailed coverage of dynamics applications, over 180 examples and nearly 600 problems richly illustrate the concepts developed in the text. Topics covered include: General kinematics and kinetics Expanded study of two- and three-dimensional motion, as well as of impact dynamics Analytical mechanics, including Lagrange's and Kane's equations The stability and response of dynamical systems, including vibration analysis Dynamics and stability of ground vehicles Designed for classroom instruction appealing to undergraduate and graduate students taking intermediate and advanced dynamics courses, as well as vibration study and analysis of land vehicles, Applied Dynamics can also be used as an up-to-date reference in engineering dynamics for researchers and professional engineers.

[Modeling Economic Growth in Contemporary Greece](#) - Vasileios Vlachos 2021-11-04
Modeling Economic Growth in Contemporary Greece assesses the conditions shaping the Greek economy's restart, discussing the effect of institutions on the business environment and highlighting the factors which are critical for achieving sustainable economic growth.

Computing and Combinatorics - Zhipeng Cai 2014-07-05

This book constitutes the refereed proceedings of the 20th International Conference on Computing and Combinatorics, COCOON 2014,

held in Atlanta, GA, USA, in August 2014. The 51 revised full papers presented were carefully reviewed and selected from 110 submissions. There was a co-organized workshop on computational social networks (CSoNet 2014) where 8 papers were accepted. The papers cover the following topics: sampling and randomized methods; logic, algebra and automata; database and data structures; parameterized complexity and algorithms; computational complexity; computational biology and computational geometry; approximation algorithm; graph theory and algorithms; game theory and cryptography; scheduling algorithms and circuit complexity and CSoNet.

Man-Machine-Environment System Engineering: Proceedings of the 21st International Conference on MMESE -

Shengzhao Long 2021-09-21

Man-Machine-Environment System Engineering: Proceedings of the 21st Conference on MMESE is the academic showcase of best research papers selected from more than 500 submissions each year. From this book reader will learn the best research topics and the latest development trend in MMESE design theory and other human-centered system application. MMESE focus mainly on the relationship between Man, Machine and Environment. It studies the optimum combination of man-machine-environment systems. In the system, the Man means the working people as the subject in the workplace (e.g. operator, decision-maker); the Machine means the general name of any object controlled by the Man (including tool, Machinery, Computer, system and technology), the Environment means the specially working conditions under which Man and Machine occupy together (e.g. temperature, noise, vibration, hazardous gases etc.). The three goals of the optimization of the system are safety, efficiency and economy. In 1981 with direct support from one of the greatest modern Chinese scientists, Qian Xuesen, Man-Machine-Environment System Engineering (MMESE), the integrated and advanced science research topic was established in China by Professor Shengzhao Long. In the letter to Shengzhao Long, in October 22nd, 1993, Qian Xuesen wrote: "You have created a very important modern science subject and technology in

China!"

MGMT8 - Chuck Williams 2015-01-13

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Az Egyesült Államok klasszikus és új Hollywoodja - Vasil Teigens

A 20. Század eleje óta az amerikai filmipar nagyrészt a kaliforniai Los Angeles-i Hollywoodban, a 30 mérföldes zónában és annak környékén található. DW Griffith rendező központi szerepet töltött be a filmnyelvtan fejlesztésében. Orson Welles Citizen Kane-jét (1941) a kritikusok közvélemény-kutatásaiban minden idők legnagyobb filmjeként emlegetik. Todd Berliner szerint a hetvenes évek mozi ellenáll a klasszikus hollywoodi mozit általában jellemző hatékonyságnak és harmóniának, és teszteli Hollywood klasszikus modelljének korlátait. Tartalom: Az Egyesült Államok mozija, Az Egyesült Államok mozitörténete, Klasszikus hollywoodi mozi, New Hollywood

The symbiosis between information system project complexity and information system project success - Carl Marnewick 2017-12-01

Project success is widely covered, and the discourse on project complexity is proliferating. The purpose of this book is to merge and investigate the two concepts within the context of information system (IS) projects and understand the symbiosis between success and complexity in these projects. In this original and innovative research, exploratory modelling is employed to identify the aspects that constitute the success and complexity of projects based on the perceptions of IS project participants. This scholarly book aims at deepening the academic discourse on the relationship between the success and complexity of projects and to guide IS project managers towards improved project performance through the complexity lens. The research methodology stems from the realisation that the complexity of IS projects and its relationship to project success are under-documented. A post positivistic approach is applied in order to accommodate the subjective

interpretation of IS-project participants through a quantitative design. The researchers developed an online survey strategy regarding literature concerning the success and complexity of projects. The views of 617 participants are documented. In the book, descriptive statistics and exploratory factor analysis pave the way for identifying the key success and complexity constructs of IS projects. These constructs are used in structural-equation modelling to build various validated and predictive models. Knowledge concerning the success and complexity of projects is mostly generic with little exposure to the field of IS project management. The contribution to current knowledge includes how the success of IS projects should be considered as well as what the complexity constructs of IS projects are. The success of IS projects encompasses strategic success, deliverable success, process success and the 'unknowns' of project success. The complexity of IS projects embodies organisational complexity, environmental complexity, technical complexity, dynamics and uncertainty. These constructs of success and complexity are mapped according to their underlying latent relationships to each other. The intended audience of this book is fellow researchers and project and IS specialists, including information technology managers, executives, project managers, project team members, the project management office (PMO), general managers and executives that initiate and conduct project-related work. The work presented in this first edition of the book is original and has not been plagiarised or presented before. It is not a revised version of a thesis or research previously published. Comments resulted from the blind peer review process were carefully considered and incorporated accordingly.

Mechanical Engineers' Handbook, Volume 3 - Myer Kutz 2015-03-02

Full coverage of manufacturing and management in mechanical engineering
Mechanical Engineers' Handbook, Fourth Edition provides a quick guide to specialized areas that engineers may encounter in their work, providing access to the basics of each and pointing toward trusted resources for further reading, if needed. The book's accessible

information offers discussions, examples, and analyses of the topics covered, rather than the straight data, formulas, and calculations found in other handbooks. No single engineer can be a specialist in all areas that they are called upon to work in. It's a discipline that covers a broad range of topics that are used as the building blocks for specialized areas, including aerospace, chemical, materials, nuclear, electrical, and general engineering. This third volume of Mechanical Engineers' Handbook covers Manufacturing & Management, and provides accessible and in-depth access to the topics encountered regularly in the discipline: environmentally benign manufacturing, production planning, production processes and equipment, manufacturing system evaluation, coatings and surface engineering, physical vapor deposition, mechanical fasteners, seal technology, statistical quality control, nondestructive inspection, intelligent control of material handling systems, and much more. Presents the most comprehensive coverage of the entire discipline of Mechanical Engineering. Focuses on the explanation and analysis of the concepts presented as opposed to a straight listing of formulas and data found in other handbooks. Offers the option of being purchased as a four-book set or as single books. Comes in a subscription format through the Wiley Online Library and in electronic and other custom formats. Engineers at all levels of industry, government, or private consulting practice will find Mechanical Engineers' Handbook, Volume 3 an "off-the-shelf" reference they'll turn to again and again.

Quality in Higher Education as a Tool for Human Development - Patience Mukwambo
2019-04-11

Whilst many studies have explored how quality in higher education is conceptualised in the Global North, less attention has been paid to quality in higher education in Africa and the Global South. This book uses the human development and capabilities approach to demonstrate how quality in teaching and learning contributes to a range of benefits, such as improved wellbeing, economic outcomes, political engagement, and human capital formation amongst graduates. The book

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interrogates the various dimensions of quality as well as factors that impact on the realisation of quality in universities and society at large. Recognising that measures of quality are context and stakeholder specific, the book uses the Zimbabwean context as a Global South case study. It evaluates how quality is conceptualised and operationalised in Zimbabwean universities, and how that impacts on teaching and learning policy and practice. The book also demonstrates the need for economic resources for individuals and universities, and emphasises the importance of a social and educational environment conducive to critical learning, and post-university opportunities. This book will be of interest to researchers across Education, African and Development Studies, as well as to policymakers and practitioners with an interest in quality assurance and the promotion of teaching and learning in universities in the Global South.

Data Analytics for Renewable Energy Integration - Wei Lee Woon 2014-11-20

This book constitutes revised selected papers from the second ECML PKDD Workshop on Data Analytics for Renewable Energy Integration, DARE 2014, held in Nancy, France, in September 2014. The 11 papers presented in this volume were carefully reviewed and selected for inclusion in this book.

The Geography of South Africa - Jasper Knight 2018-10-03

This edited collection examines contemporary directions in geographical research on South Africa. It encompasses a cross section of selected themes of critical importance not only to the discipline of Geography in South Africa, but also of relevance to other areas of the Global South. All chapters are original contributions, providing a state of the art research baseline on key themes in physical, human and environmental geography, and in understanding the changing geographical landscapes of modern South Africa. These contributions set the scene for an understanding of the relationships between modern South Africa and the wider contemporary world, including issues of sustainable development and growth in the Global South.

Integer Programming and Combinatorial Optimization - Jon Lee 2014-05-17

This book constitutes the refereed proceedings of the 17th International Conference on Integer Programming and Combinatorial Optimization, IPCO 2014, held in Bonn, Germany, in June 2014. The 34 full papers presented were carefully reviewed and selected from 143 submissions. The conference is a forum for researchers and practitioners working on various aspects of integer programming and combinatorial optimization. The aim is to present recent developments in theory, computation, and applications in these areas. The scope of IPCO is viewed in a broad sense, to include algorithmic and structural results in integer programming and combinatorial optimization as well as revealing computational studies and novel applications of discrete optimization to practical problems.

ACCA Skills F8 Audit and Assurance (International) Revision Kit 2014 - BPP Learning Media 2014-06-01

The examining team reviewed F8 Practice & Revision Kit provides invaluable guidance on how to approach the exam and contains past ACCA exam questions for you to try. Questions are grouped by syllabus area so that you can easily identify what they cover. Detailed solutions provide tips, advise you how to approach questions and tell you how to gain easy marks. They also include examiners comments, to help you understand what the examiner is looking for.

Operations Research Proceedings 2014 - Marco Lübbecke 2016-02-20

This book contains a selection of refereed papers presented at the "International Conference on Operations Research (OR 2014)", which took place at RWTH Aachen University, Germany, September 2-5, 2014. More than 800 scientists and students from 47 countries attended OR 2014 and presented more than 500 papers in parallel topical streams, as well as special award sessions. The theme of the conference and its proceedings is "Business Analytics and Optimization".

Direct Modeling for Computational Fluid Dynamics - Kun Xu 2014-12-23

Computational fluid dynamics (CFD) studies the flow motion in a discretized space. Its basic scale resolved is the mesh size and time step. The CFD algorithm can be constructed through a

direct modeling of flow motion in such a space. This book presents the principle of direct modeling for the CFD algorithm development, and the construction unified gas-kinetic scheme (UGKS). The UGKS accurately captures the gas evolution from rarefied to continuum flows. Numerically it provides a continuous spectrum of governing equation in the whole flow regimes.

Contents: Direct Modeling for Computational Fluid Dynamics Introduction to Gas Kinetic Theory Introduction to Nonequilibrium Flow Simulations Gas Kinetic Scheme Unified Gas Kinetic Scheme Low Speed Microflow Studies High Speed Flow Studies Unified Gas Kinetic Scheme for Diatomic Gas Conclusion

Readership: Undergraduate and graduate students, researchers and professionals

interested in computational fluid dynamics. Key Features: Direct modeling for CFD is self-contained and unified in presentation. It may be used as an advanced textbook by graduate students and even ambitious undergraduates in computational fluid dynamics. It is also suitable for experts in CFD who wish to have a new understanding of the fundamental problems in the subject and study alternative approaches in CFD algorithm development and application. The explanations in the book are detailed enough to capture the interest of the curious reader, and complete enough to provide the necessary background material needed to go further into the subject and explore the research literature.

Keywords: Direct Modeling; Unified Gas Kinetic Scheme; Boltzmann Equation; Kinetic Collision Model; Asymptotic Preserving Method