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Smart Innovations in
Communication and
Computational
Sciences Springer

Science & Business
Media

This book gathers peer-
reviewed
contributions
presented at the
International
Conference on
Structural Engineering
and Construction
Management

(SECON ' 21), held
on 12-15 May 2021.

The meeting served as
a fertile platform for
discussion, sharing
sound knowledge and
introducing novel
ideas on issues related
to sustainable
construction and
design for the future.

The respective contributions address various aspects of numerical modeling and simulation in structural engineering, structural dynamics and earthquake engineering, advanced analysis and design of foundations, BIM, building energy management, and technical project management.

Accordingly, the book offers a valuable, up-to-date tool and essential overview of the subject for scientists and practitioners alike, and will inspire further investigations and research.

Die Rose
Sch ö nheit Soll
Nicht Sterben
Springer
Science &
Business Media
This book
comprises the

proceedings of the International Conference on Machine Vision and Augmented Intelligence (MAI 2021) held at IIIT, Jabalpur, in February 2021. The conference proceedings encapsulate the best deliberations held during the conference. The diversity of participants in the event from academia, industry, and research reflects in the articles appearing in the volume. The book theme encompasses all industrial and

non-industrial applications in which a combination of hardware and software provides operational guidance to devices in the execution of their functions based on the capture and processing of images. This book covers a wide range of topics such as modeling of disease transformation, epidemic forecast, COVID-19, image processing and computer vision, augmented intelligence, soft

computing, deep learning, image reconstruction, artificial intelligence in healthcare, brain-computer interface, cybersecurity, and social network analysis, natural language processing, etc. ACCA F4 Corporate and Business Law (Global) S. Chand Publishing
The Most Complete and Accessible Reference to Fundamentals and New Developments in Water Wells and Pumps Technology
Water Wells and Pumps has been a leading reference for over two decades in the field of water wells

and pumps technology. The field has witnessed
Facilities Planning
Springer Nature
Matrix analysis of structures is a vital subject to every structural analyst, whether working in aero-astro, civil, or mechanical engineering. It provides a comprehensive approach to the analysis of a wide variety of structural types, and therefore

offers a major advantage over traditional methods which often differ for each type of structure. The matrix approach also provides an efficient means of describing various steps in the analysis and is easily programmed for digital computers. Use of matrices is natural when performing calculations with a digital computer, because

matrices permit large groups of numbers to be manipulated in a simple and effective manner. This book, now in its third edition, was written for both college students and engineers in industry. It serves as a textbook for courses at either the senior or first-year graduate level, and it also provides a permanent reference for practicing engineers. The book

explains both the theory and the practical implementation of matrix methods of structural analysis. Emphasis is placed on developing a physical understanding of the theory and the ability to use computer programs for performing structural calculations. An Introduction to Database Systems Springer Nature Master the fundamentals of discrete mathematics with

DISCRETE MATHEMATICS FOR COMPUTER SCIENCE with Student Solutions Manual CD-ROM! An increasing number of computer scientists from diverse areas are using discrete mathematical structures to explain concepts and problems and this mathematics text shows you how to express precise ideas in clear mathematical language. Through a wealth of exercises and examples, you will learn how mastering discrete mathematics will help you develop

important reasoning skills that will continue to be useful throughout your career.

Computers as Components
Springer Nature
This book offers a holistic approach to the Internet of Things (IoT) model, covering both the technologies and their applications, focusing on uniquely identifiable objects and their virtual representations in an Internet-like structure. The authors add

to the rapid growth in research on IoT communications and networks, confirming the scalability and broad reach of the core concepts. The book is filled with examples of innovative applications and real-world case studies. The authors also address the business, social, and legal aspects of the Internet of Things and explore the critical topics of security and privacy and their challenges for

both individuals and organizations. The contributions are from international experts in academia, industry, and research.

Matrix Analysis Framed Structures
Springer Science & Business Media
This book gathers high-quality research papers presented at the International Conference on Computing in Engineering and Technology (ICCET 2020) [formerly

ICCASP], a flagship event in the area of engineering and emerging next-generation technologies jointly organized by the Dr. Babasaheb Ambedkar Technological University and MGM's College of Engineering in Nanded, India, on 9-11 January 2020. Focusing on next-generation information processing systems, this second volume of the proceedings includes papers on cloud

computing and information systems, artificial intelligence and the Internet of Things, hardware design and communication, and front-end design.

UNIX System

Programming

Pearson College Division

Proceedings of International Conference on Advances in

Computing Springer Science &

Business Media

Proceedings of SECON'21

Springer

The first edition won the award for Best 1990

Professional and Scholarly Book in Computer Science and Data

Processing by the Association of American Publishers. There are books on algorithms that are rigorous but incomplete and others that cover masses of material but lack rigor. Introduction to Algorithms combines rigor and comprehensiveness . The book covers a broad range of algorithms in depth, yet makes their design and analysis accessible to all levels of readers. Each chapter is relatively self-contained and can be used as a unit of study. The algorithms are described in English and in a pseudocode designed to be readable by anyone

who has done a little programming. The explanations have been kept elementary without sacrificing depth of coverage or mathematical rigor. The first edition became the standard reference for professionals and a widely used text in universities worldwide. The second edition features new chapters on the role of algorithms, probabilistic analysis and randomized algorithms, and linear programming, as well as extensive revisions to virtually every section of the book. In a subtle but important change, loop invariants are introduced early and used throughout the text

to prove algorithm correctness. Without changing the mathematical and analytic focus, the authors have moved much of the mathematical foundations material from Part I to an appendix and have included additional motivational material at the beginning.

Machine Vision and Augmented Intelligence—Theory and Applications
Springer Nature

The book provides insights into International Conference on Smart Innovations in Communications and Computational

Sciences (ICSICCS 2017) held at North West Group of Institutions, Punjab, India. It presents new advances and research results in the fields of computer and communication written by leading researchers, engineers and scientists in the domain of interest from around the world. The book includes research work in all the areas of smart innovation, systems and technologies, embedded

knowledge and intelligence, innovation and sustainability, advance computing, networking and informatics. It also focuses on the knowledge-transfer methodologies and innovation strategies employed to make this happen effectively. The combination of intelligent systems tools and a broad range of applications introduce a need for a synergy of disciplines from science and

technology. Sample areas include, but are not limited to smart hardware, software design, smart computing technologies, intelligent communications and networking, web and informatics and computational sciences. **Electronic Communication Systems** Springer Computers as Components, Second Edition, updates the first book to bring essential knowledge on embedded systems technology and

techniques under a single cover. This edition has been updated to the state-of-the-art by reworking and expanding performance analysis with more examples and exercises, and coverage of electronic systems now focuses on the latest applications. It gives a more comprehensive view of multiprocessors including VLIW and superscalar architectures as well as more detail about power consumption. There is also more advanced treatment of all the components of the

system as well as in-depth coverage of networks, reconfigurable systems, hardware-software co-design, security, and program analysis. It presents an updated discussion of current industry development software including Linux and Windows CE. The new edition's case studies cover SHARC DSP with the TI C5000 and C6000 series, and real-world applications such as DVD players and cell phones. Researchers, students, and savvy professionals

schooled in hardware or software design, will value Wayne Wolf's integrated engineering design approach. * Uses real processors (ARM processor and TI C55x DSP) to demonstrate both technology and techniques...Shows readers how to apply principles to actual design practice. * Covers all necessary topics with emphasis on actual design practice...Realistic introduction to the state-of-the-art for both students and practitioners. * Stresses necessary fundamentals

which can be applied to evolving technologies...helps readers gain facility to design large, complex embedded systems that actually work. **Next Generation Information Processing System PHI Learning Pvt. Ltd.** This book comprises select proceedings of the international conference ETAEERE 2020, and focuses on contemporary issues in energy management and energy efficiency in the context of power systems. The contents cover modeling, simulation and

optimization based well as industry studies on topics like medium voltage BTB system, cost optimization of a ring frame unit in textile industry, rectenna for RF energy harvesting, ecology and energy dimension in infrastructural designs, study of AGC in two area hydro thermal power system, energy-efficient and reliable depth-based routing protocol for underwater wireless sensor network, and power line communication. This book can be beneficial for students, researchers as

professionals. *Advanced GMAT Quant* Springer This book highlights research on secure communication of 5G and the Internet of Things (IoT) Networks, along with related areas to ensure secure and Intern et-compatible IoT systems. The authors not only discuss 5G and IoT security and privacy challenges, but also energy efficient approaches to improving the ecosystems through communication. The book

addresses the secure communication and privacy of the 5G and IoT technologies, while also revealing the impact of IoT technologies on several scenarios in smart city design. Intended as a comprehensive introduction, the book offers in-depth analysis and provides scientists, engineers and professionals the latest techniques, frameworks and strategies used in 5G and IoT technologies. **Internet of Things and Its Applications**

McGraw-Hill Companies
This book showcases cutting-edge research papers from the 7th International Conference on Research into Design (ICoRD 2019) – the largest in India in this area – written by eminent researchers from across the world on design processes, technologies, methods and tools, and their impact on innovation, for supporting design for a connected world. The theme of ICoRD'19 has been “Design for a Connected

World”. While Design traditionally focused on developing products that worked on their own, an emerging trend is to have products with a smart layer that makes them context aware and responsive, individually and collectively, through collaboration with other physical and digital objects with which these are connected. The papers in this volume explore these themes, and their key focus is connectivity: how do products and their development change in a

connected world?
The volume will be of interest to researchers, professionals and entrepreneurs working in the areas on industrial design, manufacturing, consumer goods, and industrial management who are interested in the use of emerging technologies such as IOT, IIOT, Digital Twins, I4.0 etc. as well as new and emerging methods and tools to design new products, systems and services.
Trends in Control
Springer
Introducing various contemporary

practices, this book shows how to approach facilities planning with precision. It guides the reader through each step in the planning process, from defining requirements to developing alternative material, handling techniques and manufacturing/water house operations to selecting and evaluating facilities plans.

Research into Design for a Connected World

Manhattan Prep Publishing
Designed for students seeking 650+ scores, this guide offers essential techniques for approaching the

GMAT's most difficult quantitative questions, as well as extensive practice with challenging problems. You've worked through basic guides and you've taken the practice tests—now take your GMAT score to the next level. Build your higher-level quantitative skills with Manhattan GMAT's Advanced Quant supplement, specially designed for students seeking 650+ scores. This guide combines intense practice with techniques for problem solving and data sufficiency questions, ranging from broad principles to tactics for narrowing down possible answers. Purchase of this

book includes online access to the Advanced Quant Homework Bank of extra practice questions and detailed explanations not included in the book, as well as to the Advanced Quant Bonus Drill Set.

Psychology S.

Chand Publishing
The author have used numerical examples as the means for presentation of the underlying ideas of different operations research techniques. Accordingly, a large number of comprehensive solved examples, taken from a variety of fields, have been added in every chapter and they are followed by a

set of unsolved problems with answers (and hints wherever required) through which readers can test their understanding of the subject matter. The book, in its present form, contains around 650, examples, 1,280 illustrative diagrams.

Introduction To Algorithms Springer Nature

Primarily aimed to be an introductory text for the first course in surveying for civil, architecture and mining engineering students, this book, now in its second edition, is also suitable for various professional courses in surveying. Written

in a simple and lucid language, this book at the outset, presents a thorough introduction to the subject. Different measurement errors with their types and nature are described along with measurement of horizontal distances and electronic distances measurements. This text covers in detail the topics in levelling, angles and directions and compass survey. The functions and uses of different instruments, such as theodolites, tacheometers and stadia rods are also covered in the text. Besides, the book elaborates different fields of surveying, such as plane table surveying, topographical

surveying, construction surveying and underground surveys. Finally, the book includes a chapter on computer applications in surveying.

KEY FEATURES :

Includes about 400 figures to explain the fundamentals of surveying. Uses SI units throughout the book. Offers more than 170 fully-solved examples including the questions generated from premier universities. Provides a large number of problems and answers at the end of each chapter. Incorporates objective questions from AMIE exams and Indian Engineering

Services exams. **Utilization Of Electric Power & Electric Traction** Butterworth-Heinemann
This volume is the second part of a four-volume set (CCIS 190, CCIS 191, CCIS 192, CCIS 193), which constitutes the refereed proceedings of the First International Conference on Computing and Communications, ACC 2011, held in Kochi, India, in July 2011. The 72 revised full papers presented in this volume were carefully reviewed and selected from a large number of submissions. The

papers are organized in topical sections on database and information systems; distributed software development; human computer interaction and interface; ICT; internet and Web computing; mobile computing; multi agent systems; multimedia and video systems; parallel and distributed algorithms; security, trust and privacy. Advances in Power Systems and Energy Management John Wiley & Sons Incorporated

Covering the broad field of marine and offshore technology, sections of the volume address ocean environments, offshore structures, naval architecture, submersibles and diving, marine risers and pipelines, marine engineering, marine control systems, mooring and dynamic positioning, marine salvage, corrosion, marine safety, electronic navigations and radar, and maritime law. Annotation copyrighted by Book News, Inc., Portland, OR