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TUHV78 - GOODMAN ARIANA

The conference aims to provide an excellent international forum for sharing, disseminating knowledge and publication of research findings in the areas of sensing, signal processing and information security. The conference also provides a platform for researchers from academia and industry to exchange ideas in the current cutting edge developments in the international scenario. Tutorial sessions on advanced research topics in the field of communication, signal processing and security will facilitate as an eye opener for the students, researchers and faculty members to enhance the quality of research in their respective domains. The conference includes the product exhibition that may provoke the participants understanding, creativity and may aid to progress in their technological pursuits. Students involved in organizing the events may develop organizing ability, team spirit, leadership qualities and technical aptitude.

Designed for science and engineering students, this text focuses on emerging trends in processes for fabricating MEMS and NEMS devices. The book reviews different forms of lithography, subtractive material removal processes, and additive technologies. Both top-down and bottom-up fabrication processes are exhaustively covered and the merits of the different approaches are compared. Students can use this color volume as a guide to help establish the appropriate fabrication technique for any type of micro- or nano-machine.

This book explores the concepts of data mining and data warehousing, a promising and flourishing frontier in database systems, and presents a broad, yet in-depth overview of the field of data mining. Data mining is a multidisciplinary field, drawing work from areas including database technology, artificial intelligence, machine learning, neural networks, statistics, pattern recognition, knowledge based systems, knowledge acquisition, information retrieval, high performance computing and data visualization.

Each passing year bears witness to the development of ever more powerful computers, increasingly fast and cheap storage media, and even higher bandwidth data connections. This makes it easy to believe that we can now – at least in principle – solve any problem we are faced with so long as we only have enough data. Yet this is not the case. Although large databases allow us to retrieve many different single pieces of information and to compute simple aggregations, general patterns and regularities often go undetected. Furthermore, it is exactly these patterns, regularities and trends that are often most valuable. To avoid the danger of “drowning in information, but starving for knowledge” the branch of research known as data analysis has emerged, and a considerable number of methods and software tools have been developed. However, it is not these tools alone but the intelligent application of human intuition in combination with computational power, of sound background knowledge with computer-aided modeling, and of critical reflection with convenient automatic model construction, that results in successful intelligent data analysis projects. Guide to Intelligent Data Analysis provides a hands-on instructional approach to many basic data analysis techniques, and explains how these are used to solve data analysis problems. Topics and features: guides the reader through the process of data analysis, following the interdependent steps of project understanding, data understanding, data preparation, modeling, and deployment and monitoring; equips the reader with the necessary information in order to obtain hands-on experience of the topics under discussion; provides a review of the basics of classical statistics that support and justify many data analysis methods, and a glossary of statistical terms; includes numerous examples using R and KNIME, together with appendices introducing the open source software; integrates illustrations and case-study-style examples to support pedagogical exposition. This practical and systematic textbook/reference for graduate and advanced undergraduate students is also essential reading for all professionals who face data analysis problems. Moreover, it is a book to be used following one’s exploration of it. Dr. Michael R. Berthold is Nycomed-Professor of Bioinformatics and Information Mining at the University of Konstanz, Germany. Dr. Christian Borgelt is Principal Researcher at the Intelligent Data Analysis and Graphical Models Research Unit of the European Centre for Soft Computing, Spain. Dr. Frank Höppner is Professor of Information Systems at Ostfalia University of Applied Sciences, Germany. Dr. Frank Klawonn is a Professor in the Department of Computer Science and Head of the Data Analysis and Pattern Recognition Laboratory at Ostfalia University of Applied Sciences, Germany. He is also Head of the Bioinformatics and Statistics group at the Helmholtz Centre for Infection Research, Braunschweig, Germany.

This book presents eighteen situated design methods, offering cases and analyses of projects that range from designing interactive installations, urban spaces, and environmental systems to understand customer experiences.

Contributed research papers.

This volume provides in-depth knowledge and recent research on polymers and nanostructured materials from synthesis to advanced applications. Leading researchers from industry, academia, government, and private research institutions across the globe have contributed to this volume, covering new research on nanocomposites, polymer technology, and electrochemistry.

The book presents papers delivered by researchers, industrial experts and academicians at the Conference on Emerging Trends in Computing and Communication (ETCC 2014). As such, the book is a collection of recent and innovative works in the field Network Security and Cryptography, Cloud Computing and Big Data Analytics, Data Mining and Data Warehouse, Communication and Nanotechnology and VLSI and Image Processing.

This book presents the peer-reviewed proceedings of the 5th International Conference on Intelligent Computing and Applications (ICICA 2019), held in Ghaziabad, India, on December 6–8, 2019. The contributions reflect the latest research on advanced computational methodologies such as neural networks, fuzzy systems, evolutionary algorithms, hybrid intelligent systems, uncertain reasoning techniques, and other machine learning methods and their applications to decision-making and problem-solving in mobile and wireless communication networks.

Complete, State-of-the-Art Coverage of Sensor Technologies and Applications Fully revised with the latest breakthroughs in integrated sensors and control systems, Sensors Handbook, Second Edition provides all of the information needed to select the optimum sensor for any type of application, including engineering, semiconductor manufacturing, medical, military, agricultural, geographical, and environmental implementations. This definitive volume discusses a wide array of sensors, including MEMS, nano, microfabricated, CMOS, smart, NIR, SpectRx(tm), remote-sensing, fiber-optic, light, ceramic, and silicon sensors. Several in-depth application examples from a variety of industries are in-

cluded. The comprehensive details in this authoritative resource enable you to accurately verify the specifications for any required component. This is the most through, up-to-date reference on sensing technologies available.

Suitable for an introductory course or a second course in Instrumentation, this book includes: software-controlled measurements; time interval measurement when the two events occur arbitrarily, and to indicate the order of occurrence, and a practical set up for the time interval measurement; multi-phase sequence indicator; decibel meter; and more.

Stochastic processes are mathematical models of random phenomena that evolve according to prescribed dynamics. Processes commonly used in applications are Markov chains in discrete and continuous time, renewal and regenerative processes, Poisson processes, and Brownian motion. This volume gives an in-depth description of the structure and basic properties of these stochastic processes. A main focus is on equilibrium distributions, strong laws of large numbers, and ordinary and functional central limit theorems for cost and performance parameters. Although these results differ for various processes, they have a common trait of being limit theorems for processes with regenerative increments. Extensive examples and exercises show how to formulate stochastic models of systems as functions of a system’s data and dynamics, and how to represent and analyze cost and performance measures. Topics include stochastic networks, spatial and space-time Poisson processes, queueing, reversible processes, simulation, Brownian approximations, and varied Markovian models. The technical level of the volume is between that of introductory texts that focus on highlights of applied stochastic processes, and advanced texts that focus on theoretical aspects of processes.

“Business Ethics and Values” introduces students to the complexities and principles of ethical issues by focusing on developing ethical awareness and the ability to argue business ethics matters. A proven resource, the second edition of this text continues to present a successful blend of concrete issues and academic theory, suitable for undergraduate and postgraduate students with or without practical experience of the world of organisations. It gives as much importance to individual conscience at work as it does to socially responsible behaviour at the corporate level and within the global business world. Hallmark features: Broad coverage of the many issues in this subject ensures that students see the whole picture. The use of real-world case studies and simulations helps to stimulate debate and appreciate the multi-faceted aspects of ethical arguments. New to this edition: New material on the ethics of e-communication, sustainability and the ethical impact of globalisation ensures that students are learning from the most up-to-date material available. Further analysis of Anglo-American approaches to corporate governance and their ethical underpinnings. Short test and assignment questions at the end of each chapter help students to consolidate their learning. More simulation exercises and activities give students the opportunity to reflect on their attitudes to this engaging subject. A well-developed supplements package to support tutors and students includes an instructor’s manual, PowerPoint slides and a companion website. Colin Fisher is Professor of Managerial Ethics and Values, Nottingham Business School, Nottingham Trent University. Alan Lovell is Professor of Organisational Accountability and Head of the Department of Accounting, Finance & Economics, Nottingham Business School, Nottingham Trent University.

Compact microstrip antennas are of great importance in meeting the miniaturization requirements of modern portable communications equipment. This book is a comprehensive treatment of design techniques and test data for current compact and broadband microstrip designs. Summarizes the work of the author and his graduate students who have published over 80 refereed journal articles on the subject in the past few years. Advanced designs reported by various other prestigious antenna designers are incorporated as well.

Essential principles, practical examples, current applications, and leading-edge research. In this book, Thomas F. Quatieri presents the field’s most intensive, up-to-date tutorial and reference on discrete-time speech signal processing. Building on his MIT graduate course, he introduces key principles, essential applications, and state-of-the-art research, and he identifies limitations that point the way to new research opportunities. Quatieri provides an excellent balance of theory and application, beginning with a complete framework for understanding discrete-time speech signal processing. Along the way, he presents important advances never before covered in a speech signal processing text book, including sinusoidal speech processing, advanced time-frequency analysis, and nonlinear aeroacoustic speech production modeling. Coverage includes: Speech production and speech perception: a dual view. Crucial distinctions between stochastic and deterministic problems. Pole-zero speech models. Homomorphic signal processing. Short-time Fourier transform analysis/synthesis. Filter-bank and wavelet analysis/synthesis. Nonlinear measurement and modeling techniques. The book’s in-depth applications coverage includes speech coding, enhancement, and modification; speaker recognition; noise reduction; signal restoration; dynamic range compression, and more. Principles of Discrete-Time Speech Processing also contains an exceptionally complete series of examples and Matlab exercises, all carefully integrated into the book’s coverage of theory and applications.

The IMF’s principal statistical publication, International Financial Statistics (IFS) Online, is the standard source of international statistics on all aspects of international and domestic finance. For most countries, IFS Online reports data on balance of payments, international investment position, international liquidity, monetary and financial statistics, exchange rates, interest rates, prices, production, government accounts, national accounts, and population. Updated monthly.

These proceedings gather cutting-edge papers exploring the principles, techniques, and applications of Microservices in Big Data Analytics. The ICETCE-2019 is the latest installment in a successful series of annual conferences that began in 2011. Every year since, it has significantly contributed to the research community in the form of numerous high-quality research papers. This year, the conference’s focus was on the highly relevant area of Microservices in Big Data Analytics.

This book features selected papers presented at the 3rd International Conference on Recent Innovations in Computing (ICRIC 2020), held on 20–21 March 2020 at the Central University of Jammu, India, and organized by the university’s Department of Computer Science & Information Technology. It includes the latest research in the areas of software engineering, cloud computing, computer networks and Internet technologies, artificial intelligence, information security, database and distributed computing, and digital India.

President Carter’s 1980 declaration of a state of emergency at Love Canal, New York, recognized that residents’ health had been affected by nearby chemical waste sites. The Resource Conservation and Recovery Act, enacted in 1976, ushered in a new era of waste management disposal designed

to protect the public from harm. It required that modern waste containment systems use "engineered" barriers designed to isolate hazardous and toxic wastes and prevent them from seeping into the environment. These containment systems are now employed at thousands of waste sites around the United States, and their effectiveness must be continually monitored. Assessment of the Performance of Engineered Waste Containment Barriers assesses the performance of waste containment barriers to date. Existing data suggest that waste containment systems with liners and covers, when constructed and maintained in accordance with current regulations, are performing well thus far. However, they have not been in existence long enough to assess long-term (postclosure) performance, which may extend for hundreds of years. The book makes recommendations on how to improve future assessments and increase confidence in predictions of barrier system performance which will be of interest to policy makers, environmental interest groups, industrial waste producers, and industrial waste management industry.

Multimedia service provisioning is believed to be one of the prerequisites to guarantee the success of next-generation wireless networks. Examining the role of multimedia in state-of-the-art wireless systems and networks, *Broadband Mobile Multimedia: Techniques and Applications* presents a collection of introductory concepts, fundamental tech

This book presents high-quality, peer-reviewed papers from the Third International Conference on Advanced Computational and Communication Paradigms (ICACCP 2021), organized by Department of Computer Science and Engineering (CSE), Sikkim Manipal Institute of Technology (SMIT), Sikkim, India during 22 - 24 March 2021. ICACCP 2021 covers an advanced computational paradigms and communications technique which provides failsafe and robust solutions to the emerging problems faced by mankind. Technologists, scientists, industry professionals and research scholars from regional, national and international levels are invited to present their original unpublished work in this conference.

Now in its third edition, *Fundamentals of Microfabrication and Nanotechnology* continues to provide the most complete MEMS coverage available. Thoroughly revised and updated the new edition of this perennial bestseller has been expanded to three volumes, reflecting the substantial growth of this field. It includes a wealth of theoretical and practical information on nanotechnology and NEMS and offers background and comprehensive information on materials, processes, and manufacturing options. The first volume offers a rigorous theoretical treatment of micro- and nanosciences, and includes sections on solid-state physics, quantum mechanics, crystallography, and fluidics. The second volume presents a very large set of manufacturing techniques for micro- and nanofabrication and covers different forms of lithography, material removal processes, and additive technologies. The third volume focuses on manufacturing techniques and applications of Bio-MEMS and Bio-NEMS. Illustrated in color throughout, this seminal work is a cogent instructional text, providing classroom and self-learners with worked-out examples and end-of-chapter problems. The author characterizes and defines major research areas and illustrates them with examples pulled from the most recent literature and from his own work.

This book highlights cutting-edge research on various aspects of human-computer interaction (HCI). It includes selected research papers presented at the Third International Conference on Computing, Communication and Signal Processing (ICCASP 2018), organized by Dr. Babasaheb Ambedkar Technological University in Lonere-Raigad, India on January 26-27, 2018. It covers pioneering topics in the field of computer, electrical, and electronics engineering, e.g. signal and image processing, RF and microwave engineering, and emerging technologies such as IoT, cloud computing, HCI, and green computing. As such, the book offers a valuable guide for all scientists, engineers and research students in the areas of engineering and technology.

This book presents high-quality, original contributions (both theoretical and experimental) on software engineering, cloud computing, computer networks & internet technologies, artificial intelligence, information security, and database and distributed computing. It gathers papers presented at ICRIC 2019, the 2nd International Conference on Recent Innovations in Computing, which was held in Jammu, India, in March 2019. This conference series represents a targeted response to the growing need for research that reports on and assesses the practical implications of IoT and network technologies, AI and machine learning, cloud-based e-Learning and big data, security and privacy, image processing and computer vision, and next-generation computing technologies.

Providing a clear theoretical understanding of MEMS and NEMS, *Solid-State Physics, Fluidics, and Analytical Techniques in Micro- and Nanotechnology* focuses on nanotechnology and the science behind it, including solid-state physics. It provides a clear understanding of the electronic, mechanical, and optical properties of solids relied on in integrated circuits (ICs), MEMS, and NEMS. After exploring the rise of Si, MEMS, and NEMS in a historical context, the text discusses crystallography, quantum mechanics, the band theory of solids, and the silicon single crystal. It concludes with coverage of photonics, the quantum hall effect, and superconductivity. Fully illustrated in color, the text offers end-of-chapter problems, worked examples, extensive references, and a comprehensive glossary of terms. Topics include: Crystallography and the crystalline materials used in many semiconductor devices Quantum mechanics, the band theory of solids, and the relevance of quantum mechanics in the context of ICs and NEMS Single crystal Si properties that conspire to make Si so important Optical properties of bulk 3D metals, insulators, and semiconductors Effects of electron and photon confinement in lower dimensional structures How evanescent fields on metal surfaces enable the guiding of light below the diffraction limit in plasmonics Metamaterials and how they could make for perfect lenses, changing the photonic field forever Fluidic propulsion mechanisms and the influence of miniaturization on fluid behavior Electromechanical and optical analytical processes in miniaturized components and systems The first volume in *Fundamentals of Microfabrication and Nanotechnology, Third Edition, Three-Volume Set*, the book presents the electronic, mechanical, and optical properties of solids that are used in integrated circuits, MEMS, and NEMS and covers quantum mechanics, electrochemistry, fluidics, and photonics. It lays the foundation for a qualitative and quantitative theoretical understanding of MEMS and NEMS.

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.

This two-volume set (CCIS 1229 and CCIS 1230) constitutes the refereed proceedings of the 5th International Conference on Recent Developments in Science, Engineering and Technology, REDSET 2019, held in Gurugram, India, in November 2019. The 74 revised full papers presented were carefully reviewed and selected from total 353 submissions. The papers are organized in topical sections on data centric programming; next generation computing; social and web analytics; security in data science analytics; big data analytics.

This book, divided in two volumes, originates from Techno-Societal 2020: the 3rd International Conference on Advanced Technologies for Societal Applications, Maharashtra, India, that brings together faculty members of various engineering colleges to solve Indian regional relevant problems under

the guidance of eminent researchers from various reputed organizations. The focus of this volume is on technologies that help develop and improve society, in particular on issues such as sensor and ICT based technologies for the betterment of people, Technologies for agriculture and healthcare, micro and nano technological applications. This conference aims to help innovators to share their best practices or products developed to solve specific local problems which in turn may help the other researchers to take inspiration to solve problems in their region. On the other hand, technologies proposed by expert researchers may find applications in different regions. This offers a multidisciplinary platform for researchers from a broad range of disciplines of Science, Engineering and Technology for reporting innovations at different levels.

This book is a collection research papers and articles from the 2nd International Conference on Communications and Cyber-Physical Engineering (ICCCE - 2019), held in Pune, India in Feb 2019. Discussing the latest developments in voice and data communication engineering, cyber-physical systems, network science, communication software, image- and multimedia processing research and applications, as well as communication technologies and other related technologies, it includes contributions from both academia and industry.

With a boom in the steel industry all over the world today, the demand of sponge iron has considerably increased as a feed (raw) material to steel making. The increase in the demand of sponge iron is also due to the fact that it is used for replacing coke making required for blast furnace processing. The primary objective of this book is to provide the basis, principles, fundamentals and theory of sponge iron production. This book, earlier titled as *Sponge Iron Production in Rotary Kiln*, is revised as per the feedback from students, faculty members and professionals. It, now, covers broad spectrum of alternative routes of iron making, therefore, the book is renamed as *Alternative Routes to Iron Making*. In this revised edition of the book, three new chapters have been added to fulfil the requirement of a textbook for various universities. NEW TO THIS EDITION • New chapters on: o Utilization of Sponge Iron o Environmental Pollution and Control in Sponge Iron Industries o Smelting Reduction Process • Inclusion of principle of fluidisation in fluidised bed processes • Description of Hyl III process with recent development of the process Primarily intended for undergraduate and postgraduate students of metallurgical engineering, this book is equally beneficial for researchers, and professionals engaged in DR processes and steel industries.

This book, divided in two volumes, originates from Techno-Societal 2018: the 2nd International Conference on Advanced Technologies for Societal Applications, Maharashtra, India, that brings together faculty members of various engineering colleges to solve Indian regional relevant problems under the guidance of eminent researchers from various reputed organizations. The focus is on technologies that help develop and improve society, in particular on issues such as the betterment of differently abled people, environment impact, livelihood, rural employment, agriculture, healthcare, energy, transport, sanitation, water, education. This conference aims to help innovators to share their best practices or products developed to solve specific local problems which in turn may help the other researchers to take inspiration to solve problems in their region. On the other hand, technologies proposed by expert researchers may find applications in different regions. This offers a multidisciplinary platform for researchers from a broad range of disciplines of Science, Engineering and Technology for reporting innovations at different levels.

Add a touch of data analytics to your healthcare systems and get insightful outcomes Key Features Perform healthcare analytics with Python and SQL Build predictive models on real healthcare data with pandas and scikit-learn Use analytics to improve healthcare performance Book Description In recent years, machine learning technologies and analytics have been widely utilized across the healthcare sector. *Healthcare Analytics Made Simple* bridges the gap between practising doctors and data scientists. It equips the data scientists' work with healthcare data and allows them to gain better insight from this data in order to improve healthcare outcomes. This book is a complete overview of machine learning for healthcare analytics, briefly describing the current healthcare landscape, machine learning algorithms, and Python and SQL programming languages. The step-by-step instructions teach you how to obtain real healthcare data and perform descriptive, predictive, and prescriptive analytics using popular Python packages such as pandas and scikit-learn. The latest research results in disease detection and healthcare image analysis are reviewed. By the end of this book, you will understand how to use Python for healthcare data analysis, how to import, collect, clean, and refine data from electronic health record (EHR) surveys, and how to make predictive models with this data through real-world algorithms and code examples. What you will learn Gain valuable insight into healthcare incentives, finances, and legislation Discover the connection between machine learning and healthcare processes Use SQL and Python to analyze data Measure healthcare quality and provider performance Identify features and attributes to build successful healthcare models Build predictive models using real-world healthcare data Become an expert in predictive modeling with structured clinical data See what lies ahead for healthcare analytics Who this book is for *Healthcare Analytics Made Simple* is for you if you are a developer who has a working knowledge of Python or a related programming language, although you are new to healthcare or predictive modeling with healthcare data. Clinicians interested in analytics and healthcare computing will also benefit from this book. This book can also serve as a textbook for students enrolled in an introductory course on machine learning for healthcare.

This book constitutes the refereed proceedings of the Second International Conference on Emerging Technologies in Computer Engineering: Microservices in Big Data Analytics, ICETCE 2019, held in Jaipur, India, in February 2019. The 28 revised full papers along with 1 short paper presented were carefully reviewed and selected from 253 submissions. ICETCE conference aims to showcase advanced technologies, techniques, innovations and equipments in computer engineering. It provides a platform for researchers, scholars, experts, technicians, government officials and industry personnel from all over the world to discuss and share their valuable ideas and experiences.

This book constitutes the refereed proceedings of the First International Conference on Technology Systems and Management, ICTSM 2011, held in Mumbai, India, in February 2011. The 47 revised full papers presented were carefully reviewed and selected from 276 submissions. The papers are organized in topical sections on computer engineering and information technology; electronics and telecommunication; as well as technology management.

From MEMS to Bio-MEMS and Bio-NEMS: *Manufacturing Techniques and Applications* details manufacturing techniques applicable to bionanotechnology. After reviewing MEMS techniques, materials, and modeling, the author covers nanofabrication, genetically engineered proteins, artificial cells, nanotechnology, and self-assembly. He also discusses scaling la

This book provides a solid understanding of virtual instrumentation concepts, its purpose, its nature, and the applications developed using the National Instrument's LabVIEW software. Coverage includes many worked-out examples and discusses new technologies and challenges of virtual instrumentation systems in applications in such areas as control systems, power systems, networking, robotics, communication, and artificial intelligence.

A Grain of Truth debunks the myth that growing public distrust of genetically modified organisms can be attributed to scientific illiteracy or sensationalistic news stories. Arguing neither for nor against genetic engineering and other forms of biotechnology, this book charges both media and industry with ignoring the concerns of the general public and encourages greater public debate over

biotech and other such complex issues.