

Abma Notes Of Computer Engineering Certificate

This book discusses comprehensively the advanced manufacturing processes, including illustrative examples of the processes, mathematical modeling, and the need to optimize associated parameter problems. In addition, it describes in detail the cohort intelligence methodology and its variants along with illustrations, to help readers gain a better understanding of the framework. The theoretical and statistical rigor is validated by comparing the solutions with evolutionary algorithms, simulation annealing, response surface methodology, the firefly algorithm, and experimental work. Lastly, the book critically reviews several socio-inspired optimization methods.

This book presents the papers included in the proceedings of the 5th International Conference of Reliable Information and Communication Technology 2020 (IRICT 2020) that was held virtually on December 21-22, 2020. The main theme of the book is Innovative Systems for Intelligent Health Informatics. A total of 140 papers were submitted to the conference, but only 111 papers were published in this book. The book presents several hot research topics which include health informatics, bioinformatics, information retrieval, artificial intelligence, soft computing, data science, big data analytics, Internet of things (IoT), intelligent communication systems, information security, information systems, and software engineering. .

Now in its fourth edition, this handbook is an essential resource for those interested in all aspects of qualitative research, and has been extensively revised and updated to cover new topics including applied ethnography, queer theory and auto-ethnography.

Gathering customer requirements is a key activity for developing software that meets the customer's needs. A concise and practical overview of everything a requirement's analyst needs to know about establishing customer requirements, this first-of-its-kind book is the perfect desk guide for systems or software development work. The book enables professionals to identify the real customer requirements for their projects and control changes and additions to these requirements. This unique resource helps practitioners understand the importance of requirements, leverage effective requirements practices, and better utilize resources. The book also explains how to strengthen interpersonal relationships and communications which are major contributors to project effectiveness. Moreover, analysts find clear examples and checklists to help them implement best practices.

"A classic study of the development of the Saturn launch vehicle that took Americans to the moon in the 1960s"--Back cover.

This book constitutes the proceedings of the 14th International Conference on Computational Processing of the Portuguese Language, PROPOR 2020, held in Evora, Portugal, in March 2020. The 36 full papers presented together with 5 short papers were carefully reviewed and selected from 70 submissions. They are grouped in topical sections on speech processing; resources and evaluation; natural language processing applications; semantics; natural language processing tasks; and multilinguality.

This volume comprises select peer reviewed papers presented at the international conference - Advanced Research and Innovations in Civil Engineering (ARICE 2019). It brings together a wide variety of innovative topics and current developments in various branches of civil engineering. Some of the major topics covered include structural engineering, water resources engineering, transportation engineering, geotechnical engineering, environmental engineering, and remote sensing. The book also looks at emerging topics such as green building technologies, zero-energy buildings, smart materials, and intelligent transportation systems. Given its contents, the book will prove useful to students, researchers, and professionals working in the field of civil engineering.

Database management is attracting wide interest in both academic and industrial contexts. New application areas such as CAD/CAM, geographic information systems, and multimedia are emerging. The needs of these application areas are far more complex than those of conventional business applications. The purpose of this book is to bring together a set of current research issues that addresses a broad spectrum of topics related to database systems and applications. The book is divided into four parts: - object-oriented databases, - temporal/historical database systems, - query processing in database systems, - heterogeneity, interoperability, open system architectures, multimedia database systems.

This book gathers selected research papers presented at the International Conference on Communication and Intelligent Systems (ICCIS 2019), organised by Swami Keshvanand Institute of Technology, Management & Gramothan (SKIT), Jaipur, India and Rajasthan Technical University, Kota, India on 9–10 November 2019. This book presents a collection of state-of-the-art research work involving cutting-edge technologies for communication and intelligent systems. Over the past few years, advances in artificial intelligence and machine learning have sparked new research efforts around the globe, which explore novel ways of developing intelligent systems and smart communication technologies. The book presents single- and multi-disciplinary research on these themes in order to make the latest results available in a single, readily accessible source.

This book gathers selected papers presented at the Second International Conference on Intelligent Manufacturing and Automation (ICIMA 2020), which was jointly organized by the Departments of Mechanical Engineering and Production Engineering at Dwarkadas J. Sanghvi College of Engineering (DJSCE), Mumbai, and by the Indian Society of Manufacturing Engineers (ISME). Covering a range of topics in intelligent manufacturing, automation, advanced materials and design, it focuses on the latest advances in e.g. CAD/CAM/CAE/CIM/FMS in manufacturing, artificial intelligence in manufacturing, IoT in manufacturing, product design & development, DFM/DFA/FMEA, MEMS & nanotechnology, rapid prototyping, computational techniques, nano- & micro-machining, sustainable manufacturing, industrial engineering, manufacturing process management, modelling & optimization techniques, CRM, MRP & ERP, green, lean & agile manufacturing, logistics & supply chain management, quality assurance & environmental protection, advanced material processing & characterization of composite & smart materials. The book is intended as a reference guide for future researchers, and as a valuable resource for students in graduate and doctoral programmes.

This is the eBook of the printed book and may not include any media, website access codes, or print supplements that may come packaged with the bound book. Web Technologies: A Computer Science Perspective is ideal for courses in Web-based Systems (aka Web/Internet Programming/Systems) in Computer Science, MIS, and IT departments. This text introduces the key technologies that have been developed as part of the birth and maturation of the World Wide Web. It provides a consistent, in-depth treatment of technologies that are unlikely to receive detailed coverage in non-Web computer science courses. Students will find an ongoing case study that integrates a wide spectrum of Web technologies, guidance on setting up their own software environments, and a variety of exercises and project assignments.

This book is for anyone who works with boilers: utilities managers, power plant managers, control systems engineers, maintenance technicians or operators. The information deals primarily with water tube boilers with Induced Draft (ID) and Forced Draft (FD) fan(s) or boilers containing only FD fans. It can also apply to any fuel-fired steam generator. Other books on boiler control have been published; however, they do not cover engineering details on control systems and the setup of the various control functions. Boiler Control Systems Engineering provides specific examples of boiler control including configuration and tuning, valve sizing, and transmitter specifications. This expanded and updated second edition includes drum level compensation equations, additional P&ID drawings and examples of permissive startup and tripping logic for gas, oil, and coal fired boilers. It also covers different control schemes for furnace draft control. NFPA 85 Code 2007 control system requirements are included, with illustrated examples of coal fired boilers, as well as information on the latest ISA-77 series of standards.

Now in dynamic full color, SI ENGINEERING FUNDAMENTALS: AN INTRODUCTION TO ENGINEERING, 5e helps students develop the strong problem-solving skills and solid foundation in fundamental principles they will need to become analytical, detail-oriented, and creative

engineers. The book opens with an overview of what engineers do, an inside glimpse of the various areas of specialization, and a straightforward look at what it takes to succeed. It then covers the basic physical concepts and laws that students will encounter on the job. Professional Profiles throughout the text highlight the work of practicing engineers from around the globe, tying in the fundamental principles and applying them to professional engineering. Using a flexible, modular format, the book demonstrates how engineers apply physical and chemical laws and principles, as well as mathematics, to design, test, and supervise the production of millions of parts, products, and services that people use every day. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Offers a multifaceted portrait of the visionary German scientist who became the chief rocket engineer of the Third Reich, creator of the V-2 rocket, reluctant SS officer, and one of the fathers of the U.S. space program.

This scholarly study of NASA's Marshall Space Flight Center places the institution in social, political, scientific, and technological context. It traces the evolution of Marshall, located in Huntsville, Alabama, from its origins as an Army missile development organization to its status in 1990 as one of the most diversified of NASA's field Centers. Chapters discuss military rocketry programs in Germany and the United States, Apollo-Saturn, Skylab, Space Shuttle, Spacelab, the Space Station and various scientific and technical projects including the Hubble Space Telescope. It sheds light not only on the history of space technology, science, and exploration, but also on the Cold War, federal politics, and complex organizations.

Fluids -- Heat transfer -- Thermodynamics -- Mechanical seals -- Pumps and compressors -- Drivers -- Gears -- Bearings -- Piping and pressure vessels -- Tribology -- Vibration -- Materials -- Stress and strain -- Fatigue -- Instrumentation -- Engineering economics.

Animal biotechnology is a broad field including polarities of fundamental and applied research, as well as DNA science, covering key topics of DNA studies and its recent applications. In Introduction to Pharmaceutical Biotechnology, DNA isolation procedures followed by molecular markers and screening methods of the genomic library are explained in detail. Interesting areas such as isolation, sequencing and synthesis of genes, with broader coverage of the latter, are also described. The book begins with an introduction to biotechnology and its main branches, explaining both the basic science and the applications of biotechnology-derived pharmaceuticals, with special emphasis on their clinical use. It then moves on to the historical development and scope of biotechnology with an overall review of early applications that scientists employed long before the field was defined. Additionally, this book offers first-hand accounts of the use of biotechnology tools in the area of genetic engineering and provides comprehensive information related to current developments in the following parameters: plasmids, basic techniques used in gene transfer, and basic principles used in transgenesis. The text also provides the fundamental understanding of stem cell and gene therapy, and offers a short description of current information on these topics as well as their clinical associations and related therapeutic options.

In an era when half of marriages end in divorce, cohabitation has become more commonplace and those who do get married are doing so at an older age. So why do people marry when they do? And why do some couples choose to cohabit? A team of expert family sociologists examines these timely questions in Marriage and Cohabitation, the result of their research over the last decade on the issue of union formation. Situating their argument in the context of the Western world's 500-year history of marriage, the authors reveal what factors encourage marriage and cohabitation in a contemporary society where the end of adolescence is no longer signaled by entry into the marital home. While some people still choose to marry young, others elect to cohabit with varying degrees of commitment or intentions of eventual marriage. The authors' controversial findings suggest that family history, religious affiliation, values, projected education, lifetime earnings, and career aspirations all tip the scales in favor of either cohabitation or marriage. This book lends new insight into young adult relationship patterns and will be of interest to sociologists, historians, and demographers alike.

This book constitutes the refereed proceedings of the 18th Nordic Conference on Secure IT Systems, NordSec 2013, held in Ilulissat, Greenland, in October 2013. The 18 revised regular papers together with 3 short papers and one invited talk were carefully reviewed and selected from 35 submissions. The papers are organized in topical sections on formal analysis of security protocols, cyber-physical systems, security policies, information flow, security experiences, Web security, and network security.

This book presents the proceedings of ICCEE 2019, held in Kuala Lumpur, Malaysia, on 29th–30th April 2019. It includes the latest advances in electrical engineering and electronics from leading experts around the globe.

This volume contains fifty-one revised and extended research articles written by prominent researchers participating in the international conference on Advances in Engineering Technologies and Physical Science (London, UK, 2-4 July, 2014), under the World Congress on Engineering 2014 (WCE 2014). Topics covered include mechanical engineering, bioengineering, internet engineering, wireless networks, image engineering, manufacturing engineering and industrial applications. The book offers an overview of the tremendous advances made recently in engineering technologies and the physical sciences and their applications and also serves as an excellent reference for researchers and graduate students working in these fields.

Innovative Systems for Intelligent Health Informatics
Data Science, Health Informatics, Intelligent Systems, Smart Computing
Springer Nature

Introduces the features of the C programming language, discusses data types, variables, operators, control flow, functions, pointers, arrays, and structures, and looks at the UNIX system interface

"This book covers the basics of traditional educational testing, measurement, and evaluation theory and methodology, as well as sociopolitical issues and trends influencing the future of that research and practice"--Publisher's description.

Information Systems Development (ISD) progresses rapidly, continually creating new challenges for the professionals involved. New concepts, approaches and techniques of systems development emerge constantly in this field. Progress in ISD comes from research as well as from practice. This conference will discuss issues pertaining to information systems development (ISD) in the inter-networked digital economy. Participants will include researchers, both experienced and novice, from industry and academia, as well as students and practitioners. Themes will include methods and approaches for ISD; ISD education; philosophical, ethical, and sociological aspects of ISD; as well as specialized tracks such as: distributed software development, ISD and knowledge management, ISD and electronic business / electronic government, ISD in public sector organizations, IOS.

A classic study of the development of the Saturn launch vehicle that took Americans to the Moon in the 1960s. This Saturn rocket was developed as a means of accomplishing President Kennedy's 1961 commitment for the U.S. to reach the Moon before the end of the decade. This book not only tells the important story of the development of the Saturn

rocket, and the people who designed and built it, but also recounts the stirring exploits of its operational life from orbital missions around Earth testing Apollo equipment to the Moon and back. Essential reading for anyone seeking to understand the development of space flight in America. Black and white photos.

Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database.

"[Seize the high ground is a] narrative history of the Army's aerospace experience from the 1950s to the present. The focus is on ballistic missile defense, from the early NIKE-HERCULES missile program through the SAFEGUARD acquisition site allowed by the 1972 ABM Treaty to the more advanced 'Star Wars' concepts studies toward the end of the century. [What is] covered is not only the technological response to the threat but the organizational and tactical development of the commands and units responsible for the defense mission"--CMH website.

The essential guide to blending safety and health with economical engineering Over time, the role of the engineer has evolved into a complex combination of duties and responsibilities. Modern engineers are required not only to create products and environments, but to make them safe and economical as well. Safety and Health for Engineers, Second Edition is a comprehensive guide that helps engineers reconcile safety and economic concerns using the latest cost-effective methods of ensuring safety in all facets of their work. It addresses the fundamentals of safety, legal aspects, hazard recognition, the human element of safety, and techniques for managing safety in engineering decisions. Like its successful predecessor, this Second Edition contains a broad range of topics and examples, detailed references to information and standards, real-world application exercises, and a significant bibliography of books for each chapter. Inside this indispensable resource, you'll find: * The duties and legal responsibilities for which engineers are accountable * Updated safety laws and regulations and their enforcement agencies * An in-depth study of hazards and their control * A thorough discussion of human behavior, capabilities, and limitations * Key instruction on managing safety and health through risk management, safety analyses, and safety plans and programs Additionally, Safety and Health for Engineers includes the latest legal considerations, new risk analysis methods, system safety and decision-making tools, and today's concepts and methods in ergonomic design. It also contains revised reference figures and tables, OSHA permissible exposure limits, and updated examples and exercises taken from real cases that challenged engineering designs. Written for engineers, plant managers, safety professionals, and students, Safety and Health for Engineers, Second Edition provides the information and tools you need to unite health and safety with economical engineering for safer technological solutions.

This book offers an informed and revealing account of NASA's involvement in the scientific understanding of the Earth's atmosphere. Since the nineteenth century, scientists have attempted to understand the complex processes of the Earth's atmosphere and the weather created within it. This effort has evolved with the development of new technologies -- from the first instrument-equipped weather balloons to multibillion-dollar meteorological satellite and planetary science programs. Erik M. Conway chronicles the history of atmospheric science at NASA, tracing the story from its beginnings in 1958, the International Geophysical Year, through to the present, focusing on NASA's programs and research in meteorology, stratospheric ozone depletion, and planetary climates and global warming. But the story is not only a scientific one. NASA's researchers operated within an often politically contentious environment. Although environmental issues garnered strong public and political support in the 1970s, the following decades saw increased opposition to environmentalism as a threat to free market capitalism. Atmospheric Science at NASA critically examines this politically controversial science, dissecting the often convoluted roles, motives, and relationships of the various institutional actors involved -- among them NASA, congressional appropriation committees, government weather and climate bureaus, and the military. -- Kristine C. Harper

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