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Numerical Methods for Scientific and Engineering Computation Numerical Methods for Scientific and Engineering Computation Numerical Methods For Scientific And Engineering Computation Advanced Machining Science Water Supply Engineering Engineering Hydrology: An Introduction to Processes, Analysis, and Modeling **Basic Civil Engineering Advanced Engineering Mathematics Waste Water Engineering** *Fundamentals of Digital Image Processing Introduction to Biometrics* **Management of Research and Development Organizations Water Resources Systems Planning and Management Engineering Mathematics Dynamics of structures with MATLAB® applications Machine Learning Pañc?stikayas?ra The Handbook of Nanomedicine Engineering Mathematics Recent Advances in Mechanical Engineering** *Data Science for Civil Engineering* **Handbook of Face Recognition** *Acharya Umasvami's Tattvarthsutra ?????? ????????? ?????? "???????????????" From IIM-Ahmedabad To Happiness* **Limit State Design of Reinforced Concrete Nanofinishing Science and Technology Risk and Reliability Analysis Handbook of Face Recognition** *Managing Research, Development and Innovation* **Numerical Methods (As Per Anna University) Machine Learning and Knowledge Discovery in Databases Nanotechnology** *Handbook of Biometrics* **Encyclopedia of Biometrics Fuzzy Learning and Applications PRODUCTION TECHNOLOGY** Nanofinishing Science and Technology *Environmental Technologies and Trends* **Advanced Machining Processes** Handbook of Flexible and Smart Sheet Forming Techniques

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This book explains use of data science-based techniques for modelling and providing optimal solutions to complex problems in civil engineering. It deals with the basics of data science and essential mathematics and covers pertinent applications in structural and environmental engineering, construction management, and transportation. This book is not about academics, not even about success; it is about happiness which we all, in the ultimate analysis, are striving for. The book is for those who have achieved success in their worldly affairs but hold that their role in life is much bigger than just pushing figures, making strategies, and managing men. Happiness, the book suggests, resides not in any outside object, but must spring up from within. Man's search for happiness is a search for a lost or hidden article, not of anything new. Each one of us has the power to regain the lost health, vitality and happiness, provided one develops the right faith, attains knowledge and then follows the right path. On Jain ontology and cosmology; a Digambara vere work. Biometrics is a rapidly evolving field with applications ranging from accessing one’s computer to gaining entry into a country. The deployment of large-scale biometric systems in both commercial and government applications has increased public awareness of this technology. Recent years have seen significant growth in biometric research resulting in the development of innovative sensors, new algorithms, enhanced test methodologies and novel applications. This book addresses this void by inviting some of the prominent researchers in Biometrics to contribute chapters describing the fundamentals as well as the latest innovations in their respective areas of expertise. Covers topics on Functions of one variable, Functions of several variables, Solution of Ordinary differential equations, Laplace Transforms, Evaluation of multiple integrals, Vector differential and integral calculus. This book lays emphasis on presentation of fundamentals and theoretical concepts in an intelligible and easy to understand manner. This book is designed for undergraduate and graduate students taking a first course in Dynamics of Structures, Structural Dynamics or Earthquake Engineering. It includes several topics on the theory of structural dynamics and the applications of this theo Now fully revised and updated the classic book on effective R&D management "This thoughtful and detailed work outlines what is required in order to achieve the desired end results in a networked world where teamwork and collaboration are increasingly important to globally dispersed workforces." JOHN CHAMBERS, Chairman and CEO, Cisco Praise for the Second Edition "This is a superbly written book and could make an excellent reference and text for related university courses." E. LILE MURPHREE, JR., PHD, former Chairman, Department of Engineering Management, The George Washington University "Provides a superb exposition of the role that social and psychological phenomena play in today's organizations." FRED E. FIEDLER, Professor of Psychology Emeritus, University of Washington, Seattle As the economy shifts from producing goods to producing information, the role of researchers in shaping the future has become immense. By taking advantage of modern technology, the highly trained and predominantly autonomous researchers from around the globe collect and share information better than ever yet, there is still a lack of an effective centralized structure for an R&D organization manager to integrate the efforts from many disparate individuals into a unified plan. Managing Research, Development, and Innovation, Third Edition covers the management skills and leadership theories essential to generating products and excelling in today's global economy. Topics of interest include how to design jobs, organize hierarchies, resolve conflicts, motivate employees, and create an innovative work environment. Discover how superior management skills can increase funding, generate profit, and improve the effectiveness of technologically based organizations. This new revised edition: Covers all aspects of the research and development process with focus on the human management function Includes two new chapters covering the innovation process critical to research and development of new products and services Outlines the challenging issues related to diversity in science and technology organizations and provides insights as to how diversity can be used to enhance creativity Managing Research, Development, and Innovation, Third Edition is the most complete, insightful book of its kind. Useful for professionals and graduate students alike, the text demonstrates in clear, straightforward prose how good management skills will shape the future. About the Book: This comprehensive textbook covers material for one semester course on Numerical Methods (MA 1251) for B.E./ B. Tech.

students of Anna University. The emphasis in the book is on the presentation of fundamentals and theoretical concepts in an intelligible and easy to understand manner. The book is written as a textbook rather than as a problem/guide book. The textbook offers a logical presentation of both the theory and techniques for problem solving to motivate the students in the study and application of Numerical Methods. Examples and Problems in Exercises are used to explain. Although the history of computer-aided face recognition stretches back to the 1960s, automatic face recognition remains an unsolved problem and still offers a great challenge to computer-vision and pattern recognition researchers. This handbook is a comprehensive account of face recognition research and technology, written by a group of leading international researchers. Twelve chapters cover all the sub-areas and major components for designing operational face recognition systems. Background, modern techniques, recent results, and challenges and future directions are considered. The book is aimed at practitioners and professionals planning to work in face recognition or wanting to become familiar with the state-of- the-art technology. A comprehensive handbook, by leading research authorities, on the concepts, methods, and algorithms for automated face detection and recognition. Essential reference resource for researchers and professionals in biometric security, computer vision, and video image analysis. This book presents the selected peer-reviewed papers from the National Conference on Advances in Mechanical Engineering (NCAME 2019), held at the National Institute of Technology Delhi, India. The book covers different areas of mechanical engineering from design engineering to manufacturing engineering. A wide range of topics are discussed such as CAD/CAM, additive manufacturing, fluid dynamics, materials science and engineering, simulation and modeling, finite element analysis, applied mechanics to name a few. The contents provide an overview of the state-of-the-art in mechanical engineering research in the country. Given the scope of the topics covered, the book will be of interest for students, researchers and professionals working in mechanical engineering. The Handbook of Flexible and Smart Sheet Forming Techniques presents a collection of research on state-of-art techniques developed specifically for flexible and smart sheet forming, with a focus on using analytical strategies and computational, simulation, and AI approaches to develop innovative sheet forming techniques. Bringing together various engineering perspectives, the book emphasizes how these manufacturing techniques intersect with Industry 4.0 technologies for applications in the mechanical, automobile, industrial, aerospace, and medical industries. The first section of the book introduces the concepts, classifications, variants, process cycles, and materials for flexible and smart sheet forming techniques and compares them with other conventional sheet forming processes. Subsequent sections delve deeper into topics such as: hardware and software required for these techniques; parameters, responses, and optimization strategies; the mechanics of flexible and smart sheet forming; simulation approaches; applications; and future innovations and directions. Each chapter will feature research outcomes, illustrations, case studies, and examples useful to anyone who needs to better understand and utilize these new manufacturing technologies. The purpose of this book, Production Technology, is to provide a comprehensive knowledge and insight into various aspects of engineering materials, their heat and fabrication, manufacturing processes, machining and tooling techniques, non-conventional methods of machining, the cutting tools, tooling equipment and machine tools, dies, jigs and fixtures, presses etc. As computers are finding more and more usage in factories, special attention has been given for their full coverage. Other chapters have been especially added in view of the latest trends and developments taking place in the field of production. Modern practices and recent trends on automation have been covered in each chapter. A good number of important problems collected from several universities have been solved and given at the end of each chapter. This edition has been completely revised. The authors, noted authorities in the field, focus on ways to improve R&D organization productivity and foster excellence in such companies. They describe how to design jobs, organize hierarchies, resolve conflicts, motivate employees, and create an innovative work environment. Features extensive cross-cultural coverage of European and Pacific Rim R&D organizations and policies which greatly differ from the US. Includes an entirely new section on various strategic planning elements unique to an R&D organization along with a case study. With low computational complexity and relatively short development time, Fuzzy Logic is an indispensable tool for engineering applications. The field is growing at an unprecedented rate, and there is a need for a book that describes essential tools, applications, examples, and perspectives in the field of fuzzy learning. The editors of Fuzzy Learni This highly anticipated new edition provides a comprehensive account of face recognition research and technology, spanning the full range of topics needed for designing operational face recognition systems. After a thorough introductory chapter, each of the following chapters focus on a specific topic, reviewing background information, up-to-date techniques, and recent results, as well as offering challenges and future directions. Features: fully updated, revised and expanded, covering the entire spectrum of concepts, methods, and algorithms for automated face detection and recognition systems; provides comprehensive coverage of face detection, tracking, alignment, feature extraction, and recognition technologies, and issues in evaluation, systems, security, and applications; contains numerous step-by-step algorithms; describes a broad range of applications; presents contributions from an international selection of experts; integrates numerous supporting graphs, tables, charts, and performance data. This manuscript was made possible by the exceptional support provided by INSA (Institut National des Sciences Appliquees) Toulouse, the University of New Mexico and the University of Cincinnati College of

Engineering. The authors, as listed in this book, took the time to prepare excellent manuscripts focusing on scientific and technical areas relevant to emerging environmental issues. These manuscripts were rigorously reviewed and refereed by scientists and engineers before inclusion in this book. An introductory chapter was prepared to summarize and integrate technical issues covered and the last chapter was written to present policy perspectives. The editors are most grateful to the contributors, sponsor organizations, and many colleagues who were kind enough to assist us in making this manuscript possible. Background information about the editors, principal authors and other contributor:s to this manuscript follows. Editors Professor Dr. Ravi K. Jain Associate Dean for Research and International Engineering College of Engineering University of Cincinnati Mail Location 0018 Cincinnati OH 45221-0018 U.S.A. Nanomedicine is defined as the application of nanobiotechnology in clinical medicine, which is currently being used to research the pathomechanism of disease, refine molecular diagnostics, and aid in the discovery, development, and delivery of drugs. In The Handbook of Nanomedicine, Third Edition, Prof. Kewal K. Jain updates, reorganizes, and replaces information in the comprehensive second edition in order to capture the most recent advances in this dynamic field. Important components of nanomedicine such as drug delivery via nanobiotechnology and nanopharmaceuticals as well as nanooncology, where the greatest number of advances are occurring, are covered extensively. As this text is aimed at nonmedical scientists, pharmaceutical personnel, as well as physicians, descriptions of the technology involved and other medical terminology are kept as clear and simple as possible. In depth and cutting-edge, The Handbook of Nanomedicine, Third Edition informs its readers of the ever-growing field of nanomedicine, destined to play a significant role in the future of healthcare. Publisher's Note: Products purchased from Third Party sellers are not guaranteed by the publisher for quality, authenticity, or access to any online entitlements included with the product. Understand the fundamentals, methods, and processes of modern hydrology This comprehensive engineering textbook offers a thorough overview of all aspects of hydrology and shows how to apply hydrologic principles for effective management of water resources. It presents detailed explanations of scientific principles along with real-world applications and technologies. Engineering Hydrology: An Introduction to Processes, Analysis, and Modeling follows a logical progression that builds on foundational concepts with modern hydrologic methods. Every hydrologic process is clearly explained along with current techniques for modeling and analyzing data. You will get practice problems throughout that help reinforce important concepts. Coverage includes: •The hydrologic cycle •Water balance •Components of the hydrologic cycle •Evapotranspiration •Infiltration and soil moisture •Surface water •Groundwater •Water quality •Hydrologic measurements •Streamflow measurement •Remote sensing and geographic information systems •Hydrologic analysis and modeling •Unit hydrograph models •River flow modeling •Design storm and design flood estimation •Environmental flows •Impact of climate change on water management Biometric recognition, or simply biometrics, is the science of establishing the identity of a person based on physical or behavioral attributes. It is a rapidly evolving field with applications ranging from securely accessing one’s computer to gaining entry into a country. While the deployment of large-scale biometric systems in both commercial and government applications has increased the public awareness of this technology, "Introduction to Biometrics" is the first textbook to introduce the fundamentals of Biometrics to undergraduate/graduate students. The three commonly used modalities in the biometrics field, namely, fingerprint, face, and iris are covered in detail in this book. Few other modalities like hand geometry, ear, and gait are also discussed briefly along with advanced topics such as multibiometric systems and security of biometric systems. Exercises for each chapter will be available on the book website to help students gain a better understanding of the topics and obtain practical experience in designing computer programs for biometric applications. These can be found at: http://www.csee.wvu.edu/~ross/BiometricsTextBook/. Designed for undergraduate and graduate students in computer science and electrical engineering, "Introduction to Biometrics" is also suitable for researchers and biometric and computer security professionals. A special feature of Acharya Umasvami’s Tattvarthsutra is that it is the first Jaina scripture written in the Sanskrit language. The work is of great value for the beginner as well as for the learned. Its composition has great charm. Each Sutra is composed in least possible words and can easily be memorized. Many Jains recite these Sutras. Tattvarthsutra is invaluable for understanding life, and pursuit of happiness. The hardships and afflictions that we have to endure are of our own making. Our deeds, driven by passions, lead to sufferings and reproach in this world and in the next. Virtuous activity alone, which is the cause of merit (punya), leads to joyous feeling, auspicious life, charming and lustrous physique, and high status. Our ultimate goal is the attainment of the divine attributes, in fullness and perfection, of our souls. We can reach our goal only through the three-fold path of right faith, right knowledge and right conduct. This encyclopedia provides a comprehensive reference to topics in biometrics including concepts, modalities, algorithms, devices, systems, security, performance testing, applications and standardization. With an A–Z format and over 1400 entries, it provides easy access to relevant information on all aspects of biometrics for those seeking entry into this broad field. Entries are written by experts in biometrics and related fields. Each entry includes a definition, key words, list of synonyms, list of related entries, illustration(s), applications and a bibliography. Most entries include useful literature references providing the reader with a portal to more detailed information. Comprehensive and tutorial, the Encyclopedia of Biometrics, 2nd Edition is a practical resource for

experts in the field and professionals interested in aspects of biometrics. Numerical Methods for Scientific and Engineering Computation is appropriate as a text book for the first course and partly for the second course in numerical analysis. The book is largely self-contained, the courses in calculus and matrices are essential. Some of the special features of the book are: classical and recently developed numerical methods are derived from the high speed computation view point; comparative study of the numerical methods is given to bring out advantages and disadvantages in the implementation of the methods; about 300 problems including BIT problems (1964-83) are listed at the end of Chapters 2 - 7, to serve as exercises and extension to the text; answers and hints to the problems at the end of the book as well as the solved examples in the body of the text will help the students to understand the basic concepts. This book is divided into four parts. The first part, Preliminaries, begins by introducing the basic theme of the book. It provides an overview of the current status of water resources utilization, the likely scenario of future demands, and advantages and disadvantages of systems techniques. An understanding of how the hydrological data are measured and processed is important before undertaking any analysis. The discussion is extended to emerging techniques, such as Remote Sensing, GIS, Artificial Neural Networks, and Expert Systems. The statistical tools for data analysis including commonly used probability distributions, parameter estimation, regression and correlation, frequency analysis, and time-series analysis are discussed in a separate chapter. Part 2 Decision Making, is a bouquet of techniques organized in 4 chapters. After discussing optimization and simulation, the techniques of economic analysis are covered. Recently, environmental and social aspects, and rehabilitation and resettlement of project-affected people have come to occupy a central stage in water resources management and any good book is incomplete unless these topics are adequately covered. The concept of rational decision making along with risk, reliability, and uncertainty aspects form subject matter of a chapter. With these analytical tools, the practitioner is well equipped to take a rational decision for water resources utilization. Part 3 deals with Water Resources Planning and Development. This part discusses the concepts of planning, the planning process, integrated planning, public involvement, and reservoir sizing. The last part focuses on Systems Operation and Management. After a resource is developed, it is essential to manage it in the best possible way. Many dams around the world are losing some storage capacity every year due to sedimentation and therefore, the assessment and management of reservoir sedimentation is described in details. No analysis of water resources systems is complete without consideration of water quality. A river basin is the natural unit in which water occurs. The final chapter discusses various issues related to holistic management of a river basin. This reference text discusses recent advances in the field of nanotechnology with applications in the fields of electronics sector, agriculture, health services, smart cities, food industry, and energy sector in a comprehensive manner. The text begins by discussing important concepts including bio nanotechnology, nano electronics, nano devices, nano medicine, and nano memories. It then comprehensively covers applications of nanotechnology in different areas including healthcare, energy sector, environment, security and defense, agriculture sector, food industry, automotive sector, smart cities, and Internet of Things (IoT). Aimed at senior undergraduate, graduate students and professionals in the fields of electrical engineering, electronics engineering, nanoscience and nanotechnology, this text: Discusses nano image sensors useful for imaging in medical and for security applications. Covers advances in the field of nanotechnology with their applications. It covers important concepts including neuro simulators, nano medicine, and nano materials. Covers applications of nanotechnology in diverse fields including health sector, agriculture, energy sector, and electronics. This book constitutes the refereed proceedings of the joint conference on Machine Learning and Knowledge Discovery in Databases: ECML PKDD 2008, held in Antwerp, Belgium, in September 2008. The 100 papers presented in two volumes, together with 5 invited talks, were carefully reviewed and selected from 521 submissions. In addition to the regular papers the volume contains 14 abstracts of papers appearing in full version in the Machine Learning Journal and the Knowledge Discovery and Databases Journal of Springer. The conference intends to provide an international forum for the discussion of the latest high quality research results in all areas related to machine learning and knowledge discovery in databases. The topics addressed are application of machine learning and data mining methods to real-world problems, particularly exploratory research that describes novel learning and mining tasks and applications requiring non-standard techniques. As machining processes become more advanced, so does the science behind them. This book emphasizes these scientific developments in addition to the more widely covered technological aspects, providing a full understanding of how machining has adapted to material constraints and moved beyond conventional methods in recent years. Numerous processes have been developed to allow the use of increasingly tough, corrosion-resistant, and temperature-resistant materials in machining. The advanced machining processes covered in this book range from mechanical, thermoelectric, and electrochemical, including abrasive water jet machining, electric discharge machining and micromachining, ion beam machining, and hybrid processes. It also addresses the sustainability issues raised by these processes. The underlying science of machining is centered throughout, as none of these processes can reach their full potential without both technical expertise and scientific understanding. Advanced Machining Science and its scientific approach will be of particular interest to students, researchers, and shop floor engineers. This work is based on the experience and notes of the authors while teaching mathematics courses to engineering students at the Indian Institute of

Technology, New Delhi. It covers syllabi of two core courses in mathematics for engineering students. Finishing is the final operation after a part is sized and shaped. Currently in high tech industries, there is a demand for nano level surface finishing of components. This process is done to improve the surface finish, to remove the recast layer, or to remove surface and sub-surface defects. The result is low friction, longer product life, and low power requirements. Equally important is the aesthetic aspect of the product. This subject is growing very fast from the technology as well as a science point of view. Books on this subject are very limited, particularly those ones that deal with both the science as well as the technology aspects. Singh, Jain, and Tyagi present the key concepts of risk and reliability that apply to a wide array of problems in civil and environmental engineering. Machine Learning employs techniques and theories drawn from many fields within the broad areas of mathematics, statistics, information science, and computer science, in particular from the sud-domains of machine learning, classification, cluster analysis, data mining, database, and visualization. Machine learning is perhaps the hottest thing in Silicon Valley right now, especially deep learning. We have Google's class on Tensor Flow, which teaches you everything you need to know to work in Silicon Valley's top companies. The reason why it is so hot is because it can take over many repetitive, mindless tasks. It'll make doctor better doctors, and lawyers better lawyers and it makes cars drive themselves. For example, when you're booking a taxi, you're shown how much the trip would cost. Or when you're on the trip, you're shown the path the taxi would take to reach your destination. While booking a ride on Uber, you're always told the amount of time the trip would take and how much it would cost. All of that, is Machine Learning! The overall goal of this book "Machine Learning" is to provide a broad understanding of various faces of Machine Learning environment in an integrated manner. It covers the syllabi of all technical universities in India and aboard. The first edition of this book is also been awarded by AICTE and placed in AICTE's latest Model Curriculum in Engineering & Technology as well as Emerging Technology.

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