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India's most prized resource in today's knowledge-based economy is its available technical workforce, especially in the IT sector. As the IT industry in India matures, this shall become an impediment for growth, due to lack of trained manpower for product-based and research-based products. Though there are adequate human resources in India, the most challenging task is to train those human resources in an effective manner to meet the expectations of the industry. The growth of the software industry depends on the success of the projects undertaken. This, in turn, creates higher employment opportunities in that sector. One of the most important requirements to achieve high success rate in the projects is the availability of competent software engineers. Developing competent software engineers can be achieved only through proper formal education and relevant training as required by the industry. The future success of this industry depends more on the quality of education to meet the global competitive market. This book focuses on identifying the deficiencies in the present curricula of software engineering programmes, their implementation and various methods for enhancing the curricula of undergraduate programmes, faculty competencies, instructional delivery and the skill sets of software graduates. Comprehensive Membrane Science and Engineering, Second Edition, Four Volume Set is an interdisciplinary and innovative reference work on membrane science and technology. Written by leading researchers and industry professionals from a range of backgrounds, chapters elaborate on recent and future developments in the field of membrane science and explore how the field has advanced since the previous edition published in 2010. Chapters are written by academics and practitioners across a variety of fields, including chemistry, chemical engineering, material science, physics, biology and food science. Each volume covers a wide spectrum of applications and advanced technologies, such as new membrane materials (e.g. thermally rearranged polymers, polymers of intrinsic microporosity and new hydrophobic fluoropolymer) and processes (e.g. reverse electrodialysis, membrane contractors, membrane crystallization, membrane condenser, membrane dryers and membrane emulsifiers) that have only recently proved their full potential for industrial application. This

work covers the latest advances in membrane science, linking fundamental research with real-life practical applications using specially selected case studies of medium and large-scale membrane operations to demonstrate successes and failures with a look to future developments in the field. Contains comprehensive, cutting-edge coverage, helping readers understand the latest theory Offers readers a variety of perspectives on how membrane science and engineering research can be best applied in practice across a range of industries Provides the theory behind the limits, advantages, future developments and failure expectations of local membrane operations in emerging countries Engineering Reliability and Risk Assessment explains how to improve the performance of a system using the latest risk and reliability models. Against a backdrop of increasing availability of industrial data, and ever-increasing global commercial competition, the standards for optimal efficiency with minimum hazards keep improving. Topics explained include Effective strategies for the maintenance of the mechanical components of a system, How to schedule necessary interventions throughout the product life cycle, How to understand the structure and cost of complex systems, Planning a schedule to improve the reliability and life of the system, software, system safety and risk informed asset management, and more. Uses case studies from industry practice to explain innovative solutions to real world risk assessment problems Addresses the full interdisciplinary range of topics that influence this complex field Provides brief introductions to important concepts, including risk and reliability analysis and fuzzy reliability The Most Authentic Source Of Information On Higher Education In India The Handbook Of Universities, Deemed Universities, Colleges, Private Universities And Prominent Educational & Research Institutions Provides Much Needed Information On Degree And Diploma Awarding Universities And Institutions Of National Importance That Impart General, Technical And Professional Education In India. Although Another Directory Of Similar Nature Is Available In The Market, The Distinct Feature Of The Present Handbook, That Makes It One Of Its Kind, Is That It Also Includes Entries And Details Of The Private Universities Functioning Across The Country. In This Handbook, The Universities Have Been Listed In An Alphabetical Order. This Facilitates Easy Location Of Their Names. In Addition To The Brief History Of These Universities, The Present Handbook Provides The Names Of Their Vice-Chancellor, Professors And Readers As Well As Their Faculties And Departments. It Also Acquaints The Readers With The Various Courses Of Studies Offered By Each University. It Is Hoped That The Handbook In Its Present Form, Will Prove Immensely Helpful To The Aspiring Students In Choosing The Best Educational Institution For Their Career Enhancement. In Addition, It Will Also Prove Very Useful For The Publishers In Mailing Their Publicity Materials. Even The Suppliers Of Equipment And Services Required By These Educational Institutions Will Find It Highly Valuable. Programming with JAVA, 3e, incorporates all the updates and enhancements added to JAVA 2 and J2SE 5.0 releases. The book presents the language concepts in extremely simple and easy-to-understand style with illustrations and examples wherever necessary. Salient Features Fully explains the entire Java language. Discusses Java's unique features such as packages and interfaces. Shows how to create and implement applets. Illustrates the use of advanced concepts like multithread and graphics. Covers exception handling in depth. Debugging exercises and two full-fledged projects. Includes model questions from the Sun Certified JAVA Programmer Exam. This book focuses on recent topics related to the convergence of information and communication technologies (ICT) and computing with smart devices. Domain areas of application include social, industrial, business development, and day to day life aspects. This book presents chapters related to the aforementioned topics including case studies showcasing future technological trends and challenges. Topics social inclusion solutions and social changes; smart devices and applications for day to day life; smart IoT and applications; and smart cities solutions. The book is applicable to researchers, students, professionals, and professors in a wide range of fields. Focuses on recent developments in ICT and smart devices that pose a clear benefit for users;

Presents applications of ICT in education, health, electronics, communication, networking, computing, tourism, transportation; Appeals to researchers, academics, and professionals in a cross section of disciplines. Dependability and cost effectiveness are primarily seen as instruments for conducting international trade in the free market environment. These factors cannot be considered in isolation of each other. This handbook considers all aspects of performability engineering. The book provides a holistic view of the entire life cycle of activities of the product, along with the associated cost of environmental preservation at each stage, while maximizing the performance. Presently, general-purpose optimization techniques such as Simulated Annealing, and Genetic Algorithms, have become standard optimization techniques. Concerted research efforts have been made recently in order to invent novel optimization techniques for solving real life problems, which have the attributes of memory update and population-based search solutions. The book describes a variety of these novel optimization techniques which in most cases outperform the standard optimization techniques in many application areas. New Optimization Techniques in Engineering reports applications and results of the novel optimization techniques considering a multitude of practical problems in the different engineering disciplines – presenting both the background of the subject area and the techniques for solving the problems. This cross-disciplinary book transcends departmental, institutional, industrial, public, and research organizations and goes beyond global barriers to cover the integration of research, education, and manufacturing in advanced materials processing and characterization, including CAD-CAM, Finite Element Analysis (FEA), and smart manufacturing. Advances in Manufacturing Technology: Computational Materials Processing and Characterization focuses on the design of experiment-based computational models, which involves FEA along with an ergonomics-based design of tooling for both conventional and nonconventional manufacturing processes. It discusses research, work, and recent developments in the field of production manufacturing of any mechanical system. Case studies and solved numerical solutions are included at the end of each chapter for easy reading comprehension. The book is helpful to those working on new developments in the field of product manufacturing. It also acts as a first-hand source of information for academic scholars and commercial manufacturers as they make strategic manufacturing development plans. Designed to analyze recent research in multimedia interaction from a human perspective, this study offers a new approach to human-computer interaction and stresses the special issues that multimedia interaction raises. "This book covers the latest concepts, methodologies, techniques, tools, and perspectives essential to understanding individual time management experiences"--Provided by publisher. Detailing the difficulties of building expert systems for case law, this study examines two actual, implemented systems and describes how they provide only a partial answer to the problem. The author suggests areas where there could be considerable improvements. "This encyclopedia provides the most comprehensive compilation of information on the design and implementation of e-collaboration technologies, their behavioral impact on individuals and groups, and theoretical considerations on links between the use of e-collaboration technology and behavioral patterns. It delivers indispensable content to libraries and researchers looking to develop programs of investigation into the use of e-collaboration"--Provided by publisher. Containing selected papers from the ICRESH-ARMS 2015 conference in Lulea, Sweden, collected by editors with years of experiences in Reliability and maintenance modeling, risk assessment, and asset management, this work maximizes reader insights into the current trends in Reliability, Availability, Maintainability and Safety (RAMS) and Risk Management. Featuring a comprehensive analysis of the significance of the role of RAMS and Risk Management in the decision making process during the various phases of design, operation, maintenance, asset management and productivity in Industrial domains, these proceedings discuss key issues and challenges in the operation, maintenance and risk management of complex engineering systems and will serve as a valuable resource for those in

the field. Although recent developments in Hypertext have been technology-oriented, interest is now focusing on the effects of this computer technology on psychological issues. This book examines the fundamental psychological basics of Hypertext as they apply to learning and education, memory and navigation. About the Book: This book Engineering Mathematics-II is designed as a self-contained, comprehensive classroom text for the second semester B.E. Classes of Visveswaraiah Technological University as per the Revised new Syllabus. The topics included are Differential Calculus, Integral Calculus and Vector Integration, Differential Equations and Laplace Transforms. The book is written in a simple way and is accompanied with explanatory figures. All this make the students enjoy the subject while they learn. Inclusion of selected exercises and problems make the book educational in nature. It shou. This book is of immense use for the students of B.Tech (CSE), B.Tech (IT), BCA, DCA and PGDCA who involved in this field. This book is divided into five chapters and all topics are illustrated with clear diagrams, very simple language is used throughout the text to facilitate easy understanding of concepts, Students will find the parts in the earliest way that they can understand. We hope the book will serve its intended purpose and students will get benefit from it the maximum possible ways. We would like to thanks to all peoples who suggest our book and all the students who invoke this book, we hope that this new edition will serve a great knowledge, and will be immensely helpful to all students, who are often hard pressed of time. Any suggestion from students, teachers and experts for the improvement of this book will be greatly acknowledged and will lead towards the preparation of the next edition. We sincerely hope that all people will enjoy to reading this book. Prof. Vikram Rajpoot Prof. Prashant Chaturvedi Prof. Rakesh Agarwal This book describes methods to improve software performance and safety using advanced mathematical and computational analytics. The main focus is laid on the increase of software reliability by preventive and predictive maintenance with efficient usage of modern testing resources. The editors collect contributions from international researchers in the field.

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