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This book gathers the proceedings of the 4th
conference on Recent Advances in Engineering
Math. & Physics (RAEMP 2019), which took place
in Cairo, Egypt in December 2019. This
international and interdisciplinary conference

highlights essential research and developments in the field of Engineering Mathematics and Physics and related technologies and applications. The proceedings is organized to follow the main tracks of the conference: Advanced computational techniques in engineering and sciences; computational intelligence; photonics; physical measurements and big data analytics; physics and nano-technologies; and optimization and mathematical analysis. Engineering Mathematics (Conventional and Objective Type) completely covers the subject of Engineering Mathematics for engineering students (as per AICTE) as well as engineering entrance exams such as GATE, IES, IAS and Engineering Services Exams. Though a first edition, the book is enriched by 50 years of Academics and professional experience of the Author(s) and the experience of more than 85 published books. This book explores the benefits of deploying Machine Learning (ML) and Artificial Intelligence (AI) in the health care environment. The authors study different research directions that are working to serve challenges faced in building strong healthcare infrastructure with respect to the pandemic crisis. The authors take note of obstacles faced in the rush to develop and

alter technologies during the Covid crisis. They study what can be learned from them and what can be leveraged efficiently. The authors aim to show how healthcare providers can use technology to exploit advances in machine learning and deep learning in their own applications. Topics include remote patient monitoring, data analysis of human behavioral patterns, and machine learning for decision making in real-time.

Introduction to Engineering Mathematics Volume-I has been thoroughly revised according to the New Syllabi (2018 onwards) of Dr. A.P.J. Abdul Kalam Technical University (AKTU, Lucknow). The book contains 19 chapters divided among five sections - Differential Calculus- I, Differential Calculus- II, Matrices, Multivariable calculus- I and Vector calculus. It contains good number of solved examples from question papers of examinations recently held by different universities and engineering colleges so that the students may not find any difficulty while answering these problems in their final examination.

Basic Engineering Mathematics Volume This book is primarily written according to the syllabi for B.E./B.Tech. Students for I sem. of MDU, Rohtak and Kurushetra University .

Special Features :

Lucid and Simple Language | Objective Types Questions | Large Number of Solved Examples | Tabular Explanation of Specific Topics | Presentation in a very Systematic and logical manner. For B.E./B.Tech. / B.Arch. Students for First Semester of all Engineering Colleges of Maha Maya Technical University, Noida and Gautam Buddha Technical University, Lucknow

Introduction to Engineering Mathematics Volume-III is written for the B.E./B.Tech./B. Arch. students of third/fourth semester of Dr. A.P.J. Abdul Kalam Technical University (AKTU) in according to the new syllabus. The book is divided into twenty-five chapters covering all the important topics of the subject. It contains fairly a large number of solved examples from question papers of examinations recently held by different universities and engineering colleges so that the students may not find any difficulty while answering these problems in their final examination. The text covers a wide range of topics such as mathematical modeling of crop pest control management, water resources management, impact of anthropogenic activities on atmospheric carbon dioxide concentrations, impact of climate changes on melting of glaciers and polar bear populations, dynamics of slow-fast

predator-prey system and spread and control of HIV epidemic. It emphasizes the use of mathematical modeling to investigate the fluid flow problems including the breaking of viscoelastic jet, instability arising in nanofiber, flow in an annulus channel, and thermal instability in nano-fluids in a comprehensive manner. This book will be a readily accessible source of information for the students, researchers and policymakers interested in the application of mathematical and computational modeling techniques to investigate various biological and engineering phenomena. Features Focuses on the current modeling and computational trends to investigate various ecological, epidemiological, and engineering systems. Presents the mathematical modeling of a wide range of ecological and environmental issues including crop pest control management, water resources management, the effect of anthropogenic activities on atmospheric carbon dioxide concentrations, and impact of climate changes on melting of glaciers and polar bear population. Covers a wide range of topics including the breaking of viscoelastic jet, instability arising in nanofiber, flow in an annulus channel, and thermal instability in nano-fluids.

Examines evolutionary models i.e., models of time-varying processes. Highlights the recent developments in the analytical methods to investigate the nonlinear dynamical systems. Showcases diversified applications of computational techniques to solve practical biological and engineering problems. The book focuses on the recent research developments in the mathematical modeling and scientific computing of biological and engineering systems. It will serve as an ideal reference text for senior undergraduate, graduate students, and researchers in diverse fields including ecological engineering, environmental engineering, computer engineering, mechanical engineering, mathematics, and fluid dynamics. A groundbreaking and comprehensive reference that's been a bestseller since 1970, this new edition provides a broad mathematical survey and covers a full range of topics from the very basic to the advanced. For the first time, a personal tutor CD-ROM is included. This book has been thoroughly revised according to the New Syllabus of Uttar Pradesh Technical University (UPTU), Lucknow. [For B.E. / B.Tech. / B.Arch. Students for second semester of all Engineering Colleges of Uttar Pradesh Technical University

(UPTU). Lucknow] "Introduction to Engineering Mathematics" series is compiled specifically for the faculty and students at all engineering colleges of Dr A.P.J. Abdul Kalam Technical University (AKTU), Lucknow, UP along with other engineering institutes which might follow the same course pattern. With a completely new syllabus, the subject is fully covered in a single textbook. Therefore for "Integral Transform and Discrete Maths" students and faculties need not refer to multiple texts anymore. Replete with well-placed examples to complement the theory, the book enables students to learn effortlessly of so-called difficult topics as well. Cybersecurity Analytics is for the cybersecurity student and professional who wants to learn data science techniques critical for tackling cybersecurity challenges, and for the data science student and professional who wants to learn about cybersecurity adaptations. Trying to build a malware detector, a phishing email detector, or just interested in finding patterns in your datasets? This book can let you do it on your own. Numerous examples and datasets links are included so that the reader can "learn by doing." Anyone with a basic college-level calculus course and some probability knowledge can easily

understand most of the material. The book includes chapters containing: unsupervised learning, semi-supervised learning, supervised learning, text mining, natural language processing, and more. It also includes background on security, statistics, and linear algebra. The website for the book contains a listing of datasets, updates, and other resources for serious practitioners. This book includes research studies, novel theory, as well as new methodology and applications in mathematics and management sciences. The book will provide a comprehensive range of mathematics applied to engineering areas for different tasks. It will offer an international perspective and a bridge between classical theory and new methodology in many areas, along with real-life applications.

Features Offers solutions to multi-objective transportation problem under cost reliability using utility function Presents optimization techniques to support eco-efficiency assessment in manufacturing processes Covers distance-based function approach for optimal design of engineering processes with multiple quality characteristics Provides discrete time sliding mode control for non-linear networked control systems Discusses second law of

thermodynamics as instruments for optimizing fluid dynamic systems and aerodynamic systems

Now in its eighth edition, Higher Engineering Mathematics has helped thousands of students succeed in their exams. Theory is kept to a minimum, with the emphasis firmly placed on problem-solving skills, making this a thoroughly practical introduction to the advanced engineering mathematics that students need to master. The extensive and thorough topic coverage makes this an ideal text for upper-level vocational courses and for undergraduate degree courses. It is also supported by a fully updated companion website with resources for both students and lecturers. It has full solutions to all 2,000 further questions contained in the 277 practice exercises. Strictly according to the syllabus (2012-2013) of Rajiv Gandhi Pradyogiki Vishvidayala, Bhopal (M.P). For B.E. First Year Semester II (All Branches). Strictly According To The Syllabus Of Rajiv Gandhi Pradyogiki Vishwavidyalaya, Bhopal (M.P.) This book is a compendium of fundamental mathematical concepts, methods, models, and their wide range of applications in diverse fields of engineering. It comprises essentially a comprehensive and contemporary coverage of those areas of

mathematics which provide foundation to electronic, electrical, communication, petroleum, chemical, civil, mechanical, biomedical, software, and financial engineering. It gives a fairly extensive treatment of some of the recent developments in mathematics which have found very significant applications to engineering problems. For B.E./ B.Tech students of Third Semester of Maharshi Dayanand University (MDU). Rohtak and Kurushetra University, Kurushetra. Special Features of the First Edition :: Lucid and Simple Language | Large number of solved Examples | Tabular Explanation of Specific Topics | Presentation in a very Systematic and Logical manner. This book has received very good response from students and teachers within the country and abroad alike. Its previous edition exhausted in a very short time. I place on record my sense of gratitude to the students and teachers for their appreciation of my work, which has offered me an opportunity to bring out this revised Eighteenth Edition. Due to the demand of students a chapter on Linear Programming is added. A large number of new examples and problems selected from the latest question papers of various engineering examinations held recently have been included to enable the

students to understand the latest trend. Criminology and criminal justice is in its infancy in India. This book attempts to examine India's crime problem in detail and document if and how its criminal justice system has responded to emerging challenges and opportunities. The objective is to move beyond mere observations and thoughtful opinions, and make contributions that are the next steps in the development of an empirical (or evidence-based) criminology and criminal justice on this vast and diverse country- by focusing on research that is both balanced and precise. This book brings together a diverse set of 32 academics from India, the US, and the UK who have authored 19 chapters on many aspects of crime and justice in India. The organizational components or sectors of the criminal justice system are the police, the courts, and corrections. The studies collected here provide balanced coverage of the entire criminal justice system and not just one component of it. The first section of this book consists of overviews of several major issues that affect the entire criminal justice system. Section Two considers topics related to the gateway of the criminal justice system, policing. Section Three takes up the operational problems of criminal law and

*courts and Section Four deals with the difficult question of punishment and correction, the last part of the criminal justice system. Personal Computers Have Become An Essential Part Of The Physics Curricula And Is Becoming An Increasingly Important Tool In The Training Of Students. The Present Book Is An Effort To Provide A Quality And Classroom Tested Resource Material. Salient Features * Topics Have Been Carefully Selected To Give A Flavour Of Computational Techniques In The Context Of A Wide Range Of Physics Problems. * Style Of Presentation Emphasis The Pedagogic Approach, Assuming No Previous Knowledge Of Either Programming In High-Level Language Or Numerical Techniques. * Profusely Illustrated With Diagrams, Graphic Outputs, Programming Hints, Algorithms And Source Codes. * Ideally Suited For Self-Study With A Pc On Desktop. * Accompanied With A Cd Rom With Source Codes Of Selected Problems Saving The User From Typing In The Source Code. * Can Be Adopted As A Two-Semester Course In Universities Running Courses Such As Computer Applications In Physics, Numerical Methods In Physics Or As An Additional Optional Paper In Nodal Centres Of Computer Applications Provided By Ugc In Different*

*Universities. * Meets The Requirements Of Students Of Physics At Undergraduate And Post-Graduate Level In Particular And Physical Sciences, Engineering And Mathematics Students In General. This Book Is An Outcome Of A Book Project Granted By University Grants Commission New Delhi (India). Introduction to Engineering Mathematics - Volume IV has been thoroughly revised according to the New Syllabi (2018 onwards) of Dr. A.P.J. Abdul Kalam Technical University (AKTU, Lucknow). The book contains 13 chapters divided among five modules - Partial Differential Equations, Applications of Partial Differential Equations, Statistical Techniques - I, Statistical Techniques - II and Statistical Techniques - III. For B.E./ B.Tech/B.Arch. Students for first semester of all Engineering Colleges of Uttarakhand, Dehradun (Unified Syllabus). As per the syllabus 2006-07 and onwards. The subject matter is presented in a very systematic and logical manner. The book contains fairly large number of solved examples from question papers of examinations recently conducted by different universities Mathematical Physics This book is primarily written according to the latest syllabus (July 2013) of Mahamaya Technical University, Noida for the third semester students of*

B.E./B.Tech/B.Arch. The textbook is for the Group B [ME, AE, MT, TT, TE, TC, FT, CE, CH, etc. Branches] of B.Tech III Semester. The Solved Question Paper of Dec. 2012 is included in the body of the text. B.E./B.Tech. Students of Second Semester of MDU, Rohtak and Kurushetra University, Kurushetra. In recent years, mathematics has experienced amazing growth in the engineering sciences. Mathematics forms the common foundation of all engineering disciplines. This book provides a comprehensive range of mathematics applied in various fields of engineering for different tasks such as civil engineering, structural engineering, computer science, and electrical engineering, among others. It offers chapters that develop the applications of mathematics in engineering sciences, conveys the innovative research ideas, offers real-world utility of mathematics, and has a significance in the life of academics, practitioners, researchers, and industry leaders. Features Focuses on the latest research in the field of engineering applications Includes recent findings from various institutions Identifies the gaps in the knowledge in the field and provides the latest approaches Presents international studies and findings in modeling and simulation Offers

various mathematical tools, techniques, strategies, and methods across different engineering fields Introduction to Engineering Mathematics Volume-II has been thoroughly revised according to the New Syllabi (2018 onwards) of Dr. A.P.J. Abdul Kalam Technical University (AKTU, Lucknow). The book contains 15 chapters divided among five modules - Ordinary Differential Equations of Higher Order, Multivariable Calculus-II, Sequence and Series, Complex Variable Differentiation and Complex Variable-Integration. It contains numerous solved examples from question papers of examinations recently held by different universities and engineering colleges so that the students may not find any difficulty while answering these problems in their final examination. For Engineering students & also useful for competitive Examination. This book is a compendium of the proceedings of the International Conference on Applied Analysis, Computation, and Mathematical Modelling in Engineering (AACMME-2021). The book covers a variety of applications such as mechanical, acoustical, physical, electrical, bio-mathematical, and computational fluid dynamics. Since mathematical modeling necessitates a wide

range of skills and methods, the book concentrates on techniques that will be of specific interest to engineers, scientists, and those who work with discrete and continuous systems models. This book guides students, researchers, and professionals through the new approaches, the powerful tools for quickly mastering the most popular mathematical and computational models used in engineering and science. These new approaches enable readers to not only systematically create effective models, but also extend these models to any macroscopic physical structure. For B.E. First year Semester I (all branches) strictly according to the syllabus of Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal (M.P.) and all Engineering Colleges affiliated to Ravi Shankar University, Raipur(Chattisgarh)

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