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Engineering Mathematics By Deepak Gupta

Introduction to Engineering
Mathematics Volume-III is written

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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

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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.

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This book has been written according to the latest syllabi for B. Tech. & M.C.A. courses of Punjab Technical University and other technical universities of India. The previous years' university questions papers have been solved systematically and

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logically in each chapter. It is intended to help students better understand the concepts and ideas of discrete structures.

Hybrid Computational Intelligence: Challenges and Utilities is a comprehensive resource that begins with the basics and main

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components of computational intelligence. It brings together many different aspects of the current research on HCI technologies, such as neural networks, support vector machines, fuzzy logic and evolutionary computation, while

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also covering a wide range of applications and implementation issues, from pattern recognition and system modeling, to intelligent control problems and biomedical applications. The book also explores the most widely used applications of hybrid computation

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as well as the history of their development. Each individual methodology provides hybrid systems with complementary reasoning and searching methods which allow the use of domain knowledge and empirical data to solve complex problems. Provides

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insights into the latest research trends in hybrid intelligent algorithms and architectures
Focuses on the application of hybrid intelligent techniques for pattern mining and recognition, in big data analytics, and in human-computer interaction Features

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hybrid intelligent applications in
biomedical engineering and
healthcare informatics

New prospects for biomedical and
healthcare engineering are being
created by the rapid development
of Robotic and Artificial
Intelligence techniques. Innovative

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technologies such as Artificial Intelligence, Deep Learning, Robotics, and IoT are currently under huge influence in today ' s modern world. For instance, a micro-nano robot allows us to study the fundamental problems at a cellular scale owing to its precise

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positioning and manipulation ability; the medical robot paves a new way for the low-invasive and high-efficient clinical operation, and rehabilitation robotics is able to improve the rehabilitative efficacy of patients. This book aims at exhibiting the latest

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research achievements, findings, and ideas in the field of robotics in biomedical and healthcare engineering, primarily focusing on the walking assistive robot, telerobotic surgery, upper/lower limb rehabilitation, and radiosurgery. As a result, a wide

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range of robots are being developed to serve a variety of roles within the medical environment. Robots specializing in human treatment include surgical robots and rehabilitation robots. The field of assistive and therapeutic robotic devices is also

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expanding rapidly. These include robots that help patients rehabilitate from severe conditions like strokes, empathic robots that assist in the care of older or physically/mentally challenged individuals, and industrial robots that take on a variety of routine

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tasks, such as sterilizing rooms and delivering medical supplies and equipment, including medications. The objectives of the book are in terms of advancing the state-of-the-art of robotic techniques and addressing the challenging problems in biomedical

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and healthcare engineering. This book Lays a good foundation for the core concepts and principles of robotics in biomedical and healthcare engineering, walking the reader through the fundamental ideas with expert ease. Progresses on the topics in a

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step-by-step manner and reinforces theory with a full-fledged pedagogy designed to enhance students ' understanding and offer them a practical insight into the applications of it. Features chapters that introduce and cover novel ideas in healthcare

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engineering like Applications of Robots in Surgery, Microrobots and Nanorobots in Healthcare Practices, Intelligent Walker for Posture Monitoring, AI-Powered Robots in Biomedical and Hybrid Intelligent Systems for Medical Diagnosis, and so on. Deepak

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Gupta is an Assistant Professor at the Maharaja Agrasen Institute of Technology, GGSIPU, Delhi, India. Moolchand Sharma is an Assistant Professor at the Maharaja Agrasen Institute of Technology, GGSIPU, Delhi, India. Vikas Chaudhary is a Professor at the JIMS Engineering

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Management Technical Campus,
GGSIPO, Greater Noida, India.

Ashish Khanna currently works at
the Maharaja Agrasen Institute of
Technology, GGSIPO, Delhi, India.

Advances in Smart Communication
and Imaging Systems

Product Design and Development

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Algorithms, Theory and
Applications

Introduction to Engineering
Mathematics Vol-III (GBTU)

Computational Perspectives

Caught By The Police: The Life
Story of Dr Anandswarup Gupta
Challenges and Applications

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Caught by the Police is the story of a talented, public-spirited and erudite man, with a multidimensional personality, a republican bent of mind, Indian values and English sensibilities. After a brilliant academic

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career, he joined the Royal Air Force in 1934 at the age of 19; unfortunately, he was forced to leave on contrived medical grounds. He got into the Indian Police due to a providential combination of circumstances

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and events, somewhat against his inclination. But once in it, he gave his all to his profession. A brave and intrepid police officer, he went on to become a celebrated police historian. He also wrote spiritual poetry,

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which forms a part of the book and, interestingly, could recite Shakespeare, Ghalib and the Bhagvad Gita with equal facility. Spanning a century of changing times, this book provides a unique account of the last

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decades of British Rule and the emergence of a new India, woven into the story of an extraordinary life lived in ordinary places, and a compelling family chronicle.

A practical guide to the design,

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implementation, evaluation, and deployment of emerging technologies for intelligent IoT applications With the rapid development in artificially intelligent and hybrid technologies, IoT, edge, fog-

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driven, and pervasive computing techniques are becoming important parts of our daily lives. This book focuses on recent advances, roles, and benefits of these technologies, describing the latest intelligent

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systems from a practical point of view. Fog, Edge, and Pervasive Computing in Intelligent IoT Driven Applications is also valuable for engineers and professionals trying to solve practical,

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economic, or technical problems. With a uniquely practical approach spanning multiple fields of interest, contributors cover theory, applications, and design methodologies for intelligent

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systems. These technologies are rapidly transforming engineering, industry, and agriculture by enabling real-time processing of data via computational, resource-oriented metaheuristics and

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machine learning algorithms. As edge/fog computing and associated technologies are implemented far and wide, we are now able to solve previously intractable problems. With chapters contributed by experts

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in the field, this book: Describes
Machine Learning frameworks
and algorithms for edge, fog,
and pervasive computing
Considers probabilistic storage
systems and proven
optimization techniques for

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intelligent IoT Covers 5G edge
network slicing and virtual
network systems that utilize
new networking capacity
Explores resource provisioning
and bandwidth allocation for
edge, fog, and pervasive mobile

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applications Presents emerging applications of intelligent IoT, including smart farming, factory automation, marketing automation, medical diagnosis, and more Researchers, graduate students, and

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practitioners working in the intelligent systems domain will appreciate this book's practical orientation and comprehensive coverage. Intelligent IoT is revolutionizing every industry and field today, and Fog, Edge,

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and Pervasive Computing in
Intelligent IoT Driven
Applications provides the
background, orientation, and
inspiration needed to begin.
"This book explores the key
concepts of data mining and

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utilizing them on online social media platforms, offering valuable insight into data mining approaches for big data and sentiment analysis in online social media and covering many important security and other

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aspects and current trends"--
This book focuses on methods
and tools for intelligent data
analysis, aimed at narrowing
the increasing gap between
data gathering and data
comprehension, and emphasis

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will also be given to solving of problems which result from automated data collection, such as analysis of computer-based patient records, data warehousing tools, intelligent alarming, effective and efficient

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monitoring, and so on. This book aims to describe the different approaches of Intelligent Data Analysis from a practical point of view: solving common life problems with data analysis tools.

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Proceedings of ICICC 2018,
Volume 1

ICDAM 2021

Geometric Programming for
Design Equation Development
and Cost/Profit Optimization
Proceedings of Data Analytics

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and Management
Cognitive Internet of Medical
Things for Smart Healthcare
Fog, Edge, and Pervasive
Computing in Intelligent IoT
Driven Applications
DoSCI 2021

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This book aims to provide a detailed understanding of IoMT-supported applications while engaging premium smart computing methods and improved algorithms in the field of computer science. It contains thirteen chapters discussing various applications under the umbrella of the Internet of Medical Things. These

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applications geared towards IoMT cloud analysis, machine learning, computer vision and deep learning have enabled the evaluation of the proposed solutions.

This book addresses the difficult task of integrating computational techniques with virtual reality and healthcare. It discusses the use of virtual reality in various areas, such as

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healthcare, cognitive and behavioural training, understanding mathematical graphs, human – computer interaction, fluid dynamics in healthcare industries, accurate real-time simulation, and healthcare diagnostics. Presenting the computational techniques for virtual reality in healthcare, it is a valuable reference

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resource for professionals at educational institutes as well as researchers, scientists, engineers and practitioners in industry. This book includes selected peer-reviewed papers presented at the International Conference on Computing and Communication Networks (ICCCN 2021), held at Manchester Metropolitan University,

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United Kingdom, during 19 – 20 November 2021. The book covers topics of network and computing technologies, artificial intelligence and machine learning, security and privacy, communication systems, cyber physical systems, data analytics, cyber security for Industry 4.0, and smart and sustainable environmental systems.

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This book includes high-quality research papers presented at the Third International Conference on Innovative Computing and Communication (ICICC 2020), which is held at the Shaheed Sukhdev College of Business Studies, University of Delhi, Delhi, India, on 21 – 23 February, 2020.

Introducing the innovative works of

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scientists, professors, research scholars, students and industrial experts in the field of computing and communication, the book promotes the transformation of fundamental research into institutional and industrialized research and the conversion of applied exploration into real-time applications.

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International Conference on Innovative
Computing and Communications
Geometric Programming for Design
Equation Development and Cost/Profit
Optimization (with illustrative case study
problems and solutions), Third Edition
ICCCN 2021
Select Proceedings of MedCom 2020

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Proceedings of the International Conference
on Artificial Intelligence and Applied
Mathematics in Engineering (ICAIAME
2020)

(with illustrative case study problems and
solutions), Third Edition

Nature-inspired computation and swarm
intelligence have become popular and

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effective tools for solving problems in optimization, computational intelligence, soft computing and data science. Recently, the literature in the field has expanded rapidly, with new algorithms and applications emerging. Nature-Inspired Computation and Swarm Intelligence: Algorithms, Theory and Applications is a

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timely reference giving a comprehensive review of relevant state-of-the-art developments in algorithms, theory and applications of nature-inspired algorithms and swarm intelligence. It reviews and documents the new developments, focusing on nature-inspired algorithms and their theoretical analysis, as well as

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providing a guide to their implementation. The book includes case studies of diverse real-world applications, balancing explanation of the theory with practical implementation. Nature-Inspired Computation and Swarm Intelligence: Algorithms, Theory and Applications is suitable for researchers and graduate

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students in computer science, engineering, data science, and management science, who want a comprehensive review of algorithms, theory and implementation within the fields of nature inspired computation and swarm intelligence.

Introduces nature-inspired algorithms and their fundamentals, including: particle

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swarm optimization, bat algorithm, cuckoo search, firefly algorithm, flower pollination algorithm, differential evolution and genetic algorithms as well as multi-objective optimization algorithms and others Provides a theoretical foundation and analyses of algorithms, including: statistical theory and Markov

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chain theory on the convergence and stability of algorithms, dynamical system theory, benchmarking of optimization, no-free-lunch theorems, and a generalized mathematical framework Includes a diversity of case studies of real-world applications: feature selection, clustering and classification, tuning of restricted

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Boltzmann machines, travelling salesman problem, classification of white blood cells, music generation by artificial intelligence, swarm robots, neural networks, engineering designs and others
The book includes high-quality research papers presented at the International Conference on Innovative Computing and

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Communication (ICICC 2018), which was held at the Guru Nanak Institute of Management (GNIM), Delhi, India on 5–6 May 2018. Introducing the innovative works of scientists, professors, research scholars, students and industrial experts in the field of computing and communication, the book promotes the

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transformation of fundamental research into institutional and industrialized research and the conversion of applied exploration into real-time applications. The development and role of the Indian Civil Service was one of the dominant features of the period of the East India Company, and later, British rule in India.

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It is extraordinary how people employed by a trading company in a foreign land transformed into the most powerful civil service in the world. It was also the first civil service in the modern world where recruitment was on the basis of open competition and not through patronage. Though much criticized, it developed its

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own character and traditions. It is really unusual that such a service – defined as the ‘steel frame’, on which depended the fortunes and the survival of a huge empire – continued essentially with the same structure and traditions, along with the administrative systems developed over a century, into Independent democratic

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India. Although much has changed, even today the Indian Administrative Service retains some basic characteristics from the past. This system of governance as it evolved in India is indeed fascinating story. Well researched and detailed in its presentation, Deepak Gupta looks at changes from the past, its present, and also

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the future of the IAS. He also suggests some measures so that it could reinvent itself to play the important role envisaged by the makers of our Constitution.

The book discusses Explainable (XAI) and Responsive Artificial Intelligence (RAI) for biomedical and healthcare applications. It will discuss the advantages

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in dealing with big and complex data by using explainable AI concepts in the field of biomedical sciences. The book explains both positive as well as negative findings obtained by explainable AI techniques. It features real time experiences by physicians and medical staff for applied deep learning based solutions. The book

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will be extremely useful for researchers and practitioners in advancing their studies.

India

The Steel Frame: A History of the IAS
Data Science for COVID-19 Volume 1
Proceedings of Second Doctoral
Symposium on Computational Intelligence

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Engineering Mathematics I, (WBUT)

ICIMMI 2020

Data Mining Approaches for Big Data and
Sentiment Analysis in Social Media

**Data Science for COVID-19 presents
leading-edge research on data
science techniques for the
detection, mitigation, treatment and**

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elimination of COVID-19. Sections provide an introduction to data science for COVID-19 research, considering past and future pandemics, as well as related Coronavirus variations. Other chapters cover a wide range of Data Science applications concerning

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COVID-19 research, including Image Analysis and Data Processing, Geoprocessing and tracking, Predictive Systems, Design Cognition, mobile technology, and telemedicine solutions. The book then covers Artificial Intelligence-based solutions, innovative

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treatment methods, and public safety. Finally, readers will learn about applications of Big Data and new data models for mitigation. Provides a leading-edge survey of Data Science techniques and methods for research, mitigation and treatment of the COVID-19 virus

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Integrates various Data Science techniques to provide a resource for COVID-19 researchers and clinicians around the world, including both positive and negative research findings Provides insights into innovative data-oriented modeling and predictive

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**techniques from COVID-19
researchers Includes real-world
feedback and user experiences
from physicians and medical staff
from around the world on the
effectiveness of applied Data
Science solutions
This book features selected papers**

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**presented at Second International
Conference on International
Conference on Information
Management & Machine Intelligence
(ICIMMI 2020) held at Poornima
Institute of Engineering &
Technology, Jaipur, Rajasthan,
India during 24 – 25 July 2020. It**

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covers a range of topics, including data analytics; AI; machine and deep learning; information management, security, processing techniques and interpretation; applications of artificial intelligence in soft computing and pattern recognition; cloud-based

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**applications for machine learning;
application of IoT in power
distribution systems; as well as
wireless sensor networks and
adaptive wireless communication.
This book briefly covers
internationally contributed chapters
with artificial intelligence and**

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applied mathematics-oriented background-details. Nowadays, the world is under attack of intelligent systems covering all fields to make them practical and meaningful for humans. In this sense, this edited book provides the most recent research on use of engineering

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capabilities for developing intelligent systems. The chapters are a collection from the works presented at the 2nd International Conference on Artificial Intelligence and Applied Mathematics in Engineering held within 09-10-11 October 2020 at the Antalya,

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Manavgat (Turkey). The target audience of the book covers scientists, experts, M.Sc. and Ph.D. students, post-docs, and anyone interested in intelligent systems and their usage in different problem domains. The book is suitable to be used as a reference work in the

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courses associated with artificial intelligence and applied mathematics.

This book is primarily written according to the latest syllabus (July 2013) of Mahamaya Technical University, Noida for the third semester students of

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**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.
Sustainable Advanced Computing
Nature-Inspired Computation and**

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**Swarm Intelligence
Freshman Record, the University of
Michigan
Services and Applications
March 04-05, 2005
Principles and Paradigms
Wearable Telemedicine Technology
for the Healthcare Industry**

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Advances in Smart Communication
and Imaging Systems
Select Proceedings of MedCom
2020
Springer Nature

This book collects research works of
data-driven medical diagnosis done
via Artificial Intelligence based

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solutions, such as Machine Learning, Deep Learning and Intelligent Optimization. Physical devices powered with Artificial Intelligence are gaining importance in diagnosis and healthcare. Medical data from different sources can also be analyzed

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via Artificial Intelligence techniques for more effective results. This book includes original unpublished contributions presented at the International Conference on Data Analytics and Management (ICDAM 2021), held at Jan

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Wyzykowski University, Poland, during June 2021. The book covers the topics in data analytics, data management, big data, computational intelligence, and communication networks. The book presents innovative work by leading academics,

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researchers, and experts from industry which is useful for young researchers and students.

This book presents select and peer-reviewed proceedings of the International Conference on Smart Communication and Imaging Systems

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(MedCom 2020). The contents explore the recent technological advances in the field of next generation communication systems and latest techniques for image processing, analysis and their related applications. The topics include

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design and development of smart, secure and reliable future communication networks; satellite, radar and microwave techniques for intelligent communication. The book also covers methods and applications of GIS and remote sensing; medical

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image analysis and its applications in smart health. This book can be useful for students, researchers and professionals working in the field of communication systems and image processing.

Universities Handbook

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Intelligent Data Analysis
Proceedings of the International
Conference on Artificial Intelligence
and Applied Mathematics in
Engineering (ICAIAME 2019)
Proceedings of the 1st International
Conference on Smart Machine

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Intelligence and Real-Time
Computing (SmartCom 2020), 26-27
June 2020, Pauri, Garhwal,
Uttarakhand, India
Select Proceedings of ICSAC 2021
Artificial Intelligence for Data-Driven
Medical Diagnosis

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Discrete Structures

This book includes high-quality research papers presented at the Second International Conference on Innovative Computing and Communication (ICICC 2019), which is held at the VŠB - Technical University of Ostrava,

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Czech Republic, on 21–22 March 2019. Introducing the innovative works of scientists, professors, research scholars, students, and industrial experts in the fields of computing and communication, the book promotes the transformation of fundamental research

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into institutional and industrialized research and the conversion of applied exploration into real-time applications. "Introduction to Engineering Mathematics" series is compiled specifically for the faculty and students at all engineering colleges of Dr A.P.J.

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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

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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.

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The field of SMART technologies is an interdependent discipline. It involves the latest burning issues ranging from machine learning, cloud computing, optimisations, modelling techniques, Internet of Things, data analytics, and Smart Grids among others, that are all

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new fields. It is an applied and multi-disciplinary subject with a focus on Specific, Measurable, Achievable, Realistic & Timely system operations combined with Machine intelligence & Real-Time computing. It is not possible for any one person to comprehensively

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cover all aspects relevant to SMART Computing in a limited-extent work. Therefore, these conference proceedings address various issues through the deliberations by distinguished Professors and researchers. The SMARTCOM 2020

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proceedings contain tracks dedicated to different areas of smart technologies such as Smart System and Future Internet, Machine Intelligence and Data Science, Real-Time and VLSI Systems, Communication and Automation Systems. The proceedings can be used

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as an advanced reference for research and for courses in smart technologies taught at graduate level.

Wearable Telemedicine Technology for the Healthcare Industry: Product Design and Development focuses on recent advances and benefits of

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wearable telemedicine techniques for remote health monitoring and prevention of chronic conditions, providing real time feedback and help with rehabilitation and biomedical applications. Readers will learn about various techniques used by software

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engineers, computer scientists and biomedical engineers to apply intelligent systems, artificial intelligence, machine learning, virtual reality and augmented reality to gather, transmit, analyze and deliver real-time clinical and biological data to

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clinicians, patients and researchers. Wearable telemedicine technology is currently establishing its place with large-scale impact in many healthcare sectors because information about patient health conditions can be gathered anytime and anywhere outside

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of traditional clinical settings, hence saving time, money and even lives. Provides readers with methods and applications for wearable devices for ubiquitous health and activity monitoring, wearable biosensors, wearable app development and

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management using machine learning techniques, and more Integrates coverage of a number of key wearable technologies, such as ubiquitous textile systems for movement disorders, remote surgery using telemedicine, intelligent computing algorithms for

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smart wearable healthcare devices,
blockchain, and more Provides readers
with in-depth coverage of wearable
product design and development
Proceedings of the Second
International Conference on
Information Management and Machine

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Intelligence

Trends in Data Engineering Methods
for Intelligent Systems

Proceedings of ICICC 2020, Volume 2

Introduction To Engineering

Mathematics - Volume III (For
APJAKTU, Lucknow)

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Robotic Technologies in Biomedical
and Healthcare Engineering
Proceedings of International
Conference on Computing and
Communication Networks
Hybrid Computational Intelligence
Engineering Mathematics I

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has been written for the first year engineering students of WBUT. Starting with the basic notions of matrices and determinants, the entire book has been developed keeping in mind the physical interpretations of

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**mathematical concepts,
application of the notions of
the in engineering and
technology and precision
through solved examples.
Authors' long experiences of
teaching various grades of
students have played an**

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instrumental role towards this end. An emphasis on various techniques of solving difficult problems will be of immense help to the students.

Engineers face mathematical dilemmas every day—be it simple arithmetic or complex

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differential equations. To bail out engineers in such situations, a thorough understanding of applied mathematical concepts is quintessential. Engineering Mathematics II comes up with this and more—from

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**discussing graph theory to
solving improper integrals;
from working out linear
differential equations to
understanding the Laplace
transforms, the book is an
exhaustive cache of solved
numerical examples to**

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enhance learning and problem-solving skills in students. The book, with its simple calculations and derivations, completely meets the requirements of II semester BE/BTech students who aspire to master mathematics.

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Keeping the curriculum at focus, the authors offer numerous problem sets and model question papers, which serve as a great reference work for course study as well as for getting a real-life experience of competitive

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**exams With this book as
guide, students will find
tackling complex concepts
and problems an easy task. It
is a great all-time companion
for budding engineers. Key
Features 1. Lucid, well-
explained concepts with**

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**solved examples 2. Numerical
problem sets for self-
assessment 3. Large number
of MCQs and model test
papers 4. Past examination
papers with answers
This book features research
presented at the 1st**

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**International Conference on
Artificial Intelligence and
Applied Mathematics in
Engineering, held on 20-22
April 2019 at Antalya,
Manavgat (Turkey). In today's
world, various engineering
areas are essential**

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components of technological innovations and effective real-world solutions for a better future. In this context, the book focuses on problems in engineering and discusses research using artificial intelligence and applied

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**mathematics. Intended for
scientists, experts, M.Sc. and
Ph.D. students, postdocs and
anyone interested in the
subjects covered, the book
can also be used as a
reference resource for courses
related to artificial**

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**intelligence and applied
mathematics.**

**Geometric Programming is
used for cost minimization,
profit maximization, obtaining
cost ratios, and the
development of generalized
design equations for the**

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primal variables. The early pioneers of geometric programming—Zener, Duffin, Peterson, Beightler, Wilde, and Phillips—played important roles in its development. Five new case studies have been added to

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the third edition. There are five major sections: (1) Introduction, History and Theoretical Fundamentals; (2) Cost Minimization Applications with Zero Degrees of Difficulty; (3) Profit Maximization

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**Applications with Zero
Degrees of Difficulty; (4)
Applications with Positive
Degrees of Difficulty; and (5)
Summary, Future Directions,
and Geometric Programming
Theses & Dissertations Titles.
The various solution**

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techniques presented are the constrained derivative approach, condensation of terms approach, dimensional analysis approach, and transformed dual approach. A primary goal of this work is to have readers develop more

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case studies and new solution techniques to further the application of geometric programming.

**Smart Computing
Artificial Intelligence and
Applied Mathematics in
Engineering Problems**

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**Introduction to Engineering
Mathematics - Volume III
[APJAKTU]
Proceedings of ICICC 2019,
Volume 1
Biomedical Data Analysis and
Processing Using Explainable
(XAI) and Responsive**

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**Artificial Intelligence (RAI)
From Data Gathering to Data
Comprehension
Advanced Computational
Intelligence Techniques for
Virtual Reality in Healthcare**

This book features high-
quality research papers

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presented at Second Doctoral
Symposium on Computational
Intelligence (DoSCI-2021),
organized by Institute of
Engineering and Technology
(IET), AKTU, Lucknow, India,
on 6 March 2021. This book
discusses the topics such as

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computational intelligence,
artificial intelligence,
deep learning, evolutionary
algorithms, swarm
intelligence, fuzzy sets and
vague sets, rough set
theoretic approaches,
quantum-inspired

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computational intelligence,
hybrid computational
intelligence, machine
learning, computer vision,
soft computing, distributed
computing, parallel and grid
computing, cloud computing,
high-performance computing,

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biomedical computing,
decision support and
decision making.

This handbook introduces the
basic principles and
fundamentals of cyber
security towards
establishing an

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understanding of how to protect computers from hackers and adversaries. The highly informative subject matter of this handbook, includes various concepts, models, and terminologies along with examples and

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illustrations to demonstrate substantial technical details of the field. It motivates the readers to exercise better protection and defense mechanisms to deal with attackers and mitigate the situation. This

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handbook also outlines some of the exciting areas of future research where the existing approaches can be implemented. Exponential increase in the use of computers as a means of storing and retrieving

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security-intensive information, requires placement of adequate security measures to safeguard the entire computing and communication scenario. With the advent of Internet and its underlying

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technologies, information security aspects are becoming a prime concern towards protecting the networks and the cyber ecosystem from variety of threats, which is illustrated in this

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handbook. This handbook primarily targets professionals in security, privacy and trust to use and improve the reliability of businesses in a distributed manner, as well as computer scientists and software

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developers, who are seeking to carry out research and develop software in information and cyber security. Researchers and advanced-level students in computer science will also benefit from this reference.

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(FACM-2005)

Handbook of Computer
Networks and Cyber Security
Artificial Intelligence for

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