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Advanced Engineering Mathematics By Nasir

Foundations of Embodied
Learning advances learning,
instruction, and the design of
educational technologies by

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rethinking the learner as an integrated system of mind, body, and environment. Body-based processes—direct physical, social, and environmental interactions—are constantly mediating intellectual performance, sensory stimulation,

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communication abilities, and other conditions of learning. This book's coherent, evidence-based framework articulates principles of grounded and embodied learning for design and its implications for curriculum, classroom instruction, and

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student formative and summative assessment for scholars and graduate students of educational psychology, instructional design and technology, cognitive science, the learning sciences, and beyond.

'Taken for Wonder' focuses on

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19th-century travelogues authored by Iranians in Europe and argues for a methodological shift in the way scholars interpret travel writing.

Appropriate for one- or two-semester Advanced Engineering Mathematics courses in

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departments of Mathematics and Engineering. This clear, pedagogically rich book develops a strong understanding of the mathematical principles and practices that today's engineers and scientists need to know. Equally effective as either a

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textbook or reference manual, it approaches mathematical concepts from a practical-use perspective making physical applications more vivid and substantial. Its comprehensive instructional framework supports a conversational, down-to-earth

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narrative style offering easy accessibility and frequent opportunities for application and reinforcement.

Praise for the First Edition ". . .
outstandingly appealing with regard to its style, contents, considerations of requirements of

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practice, choice of examples, and exercises." —Zentrablatt Math ". . . .
. carefully structured with many detailed worked examples"
—The Mathematical Gazette ". . . .
an up-to-date and user-friendly account" —Mathematika An Introduction to Numerical

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Methods and Analysis addresses the mathematics underlying approximation and scientific computing and successfully explains where approximation methods come from, why they sometimes work (or don't work), and when to use one of the many

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techniques that are available. Written in a style that emphasizes readability and usefulness for the numerical methods novice, the book begins with basic, elementary material and gradually builds up to more advanced topics. A selection of

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concepts required for the study of computational mathematics is introduced, and simple approximations using Taylor's Theorem are also treated in some depth. The text includes exercises that run the gamut from simple hand computations, to

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challenging derivations and minor proofs, to programming exercises. A greater emphasis on applied exercises as well as the cause and effect associated with numerical mathematics is featured throughout the book. An Introduction to Numerical

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Methods and Analysis is the ideal text for students in advanced undergraduate mathematics and engineering courses who are interested in gaining an understanding of numerical methods and numerical analysis. A Paradigm for Education

**Acces PDF Advanced
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Proceedings of the International
Conference on Modelling and
Simulation (MS-17)
From Macro to Nano Scale
Lengths
First International Conference,
ARTIIS 2021, La Libertad,
Ecuador, November 25-27, 2021,

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Proceedings

Cultivating a Scientific Mindset
Should America Try to Prevent an
Exodus of Foreign Graduates of
U.S. Universities with Advanced
Science Degrees? : Hearing
Before the Subcommittee on
Immigration Policy and

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Enforcement of the Committee on
the Judiciary, House of
Representatives, One Hundred
Twelfth Congress, First Session,
October 5, 2011

International Conference, CSIE
2011, Zhengzhou, China, May
21-22, 2011. Proceedings, Part II

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This two-volume set (CCIS 152 and CCIS 153) constitutes the refereed proceedings of the International Conference on Computer Science and Information Engineering, CSIE 2011, held in Zhengzhou, China, in May 2011. The 159 revised full

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papers presented in both volumes were carefully reviewed and selected from a large number of submissions. The papers present original research results that are broadly relevant to the theory and applications of Computer Science

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and Information Engineering and address a wide variety of topics such as algorithms, automation, artificial intelligence, bioinformatics, computer networks, computer security, computer vision, modeling and simulation, databases, data

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mining, e-learning, e-commerce, e-business, image processing, knowledge management, multimedia, mobile computing, natural computing, open and innovative education, pattern recognition, parallel computing,

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robotics, wireless networks, and
Web applications.

Modelling and Simulation in
Science, Technology and
Engineering

Mathematics Proceedings of the
International Conference on

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Modelling and Simulation
(MS-17)Springer

This double volume set (LNAI
10863-10864) constitutes the
refereed proceedings of the 25th
International Workshop, EG-ICE
2018, held in Lausanne,

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Switzerland, in June 2018. The 58 papers presented in this volume were carefully reviewed and selected from 108 submissions. The papers are organized in topical sections on Advanced Computing in Engineering, Computer Supported

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Construction Management, Life-Cycle Design Support, Monitoring and Control Algorithms in Engineering, and BIM and Engineering Ontologies.

This book highlights latest advancement in Mathematics,

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Physics and Chemistry. With the theme of "Innovative Science towards Sustainability and Industrial Revolution 4.0", ICFAS 2020 brings together leading experts, scientific communities and industrialists working in the field of applied

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sciences and mathematics from all over the world to share the most recent developments and cutting-edge discoveries addressing sustainability and industrial revolution 4.0 in the field. The conference topics include green

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materials, molecular modelling, catalysis, nanodevices and nanosystems, smart materials applications, solar cells technology, computational mathematics, data analysis and visualization, and numerical analysis. The contents of

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this book are useful for researchers, students, and industrial practitioners in the areas of Mathematics, Physics and Chemistry as most of the topics are in line with IR 4.0.

Handbook of Mathematics for
Engineers and Scientists

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Advanced Functional Porous
Materials

Thinking Comprehensively about
Education

Taming Babel

25th EG-ICE International

Workshop 2018, Lausanne,

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Switzerland, June 10-13, 2018,
Proceedings, Part II

Nineteenth-Century Travel

Accounts from Iran to Europe

STEM Education from Asia

***The Handbook of Mathematics
for Engineers and Scientists***

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***covers the main fields of
mathematics and focuses on
the methods used for
obtaining solutions of various
classes of mathematical
equations that underlie the
mathematical modeling of***

numerous phenomena and processes in science and technology. To accommodate different mathematical backgrounds, the preeminent authors outline the material in a simplified, schematic

manner, avoiding special terminology wherever possible. Organized in ascending order of complexity, the material is divided into two parts. The first part is a coherent survey

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of the most important definitions, formulas, equations, methods, and theorems. It covers arithmetic, elementary and analytic geometry, algebra, differential and integral calculus, special

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functions, calculus of variations, and probability theory. Numerous specific examples clarify the methods for solving problems and equations. The second part provides many in-depth

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mathematical tables, including those of exact solutions of various types of equations. This concise, comprehensive compendium of mathematical definitions, formulas, and theorems provides the

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***foundation for exploring
scientific and technological
phenomena.***

***Through a study of Malaysia,
Taming Babel examines how
empires and postcolonial
nation-states struggle to***

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***govern multilingual and
polyglot subjects.***

***This book constitutes the
refereed proceedings of the
First International Conference
on Advanced Research in
Technologies, Information,***

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***Innovation and Sustainability,
ARTIIS 2021, held in La
Libertad, Ecuador, in
November 2021. The 53 full
papers and 2 short
contributions were carefully
reviewed and selected from***

155 submissions. The volume covers a variety of topics, such as computer systems organization, software engineering, information storage and retrieval, computing methodologies,

***artificial intelligence, and others. The papers are logically organized in the following thematic blocks:
?Computing Solutions; Data Intelligence; Ethics, Security, and Privacy; Sustainability.***

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***Applied Mathematics in
Engineering and Reliability
contains papers presented at
the International Conference
on Applied Mathematics in
Engineering and Reliability
(ICAMER 2016, Ho Chi Minh***

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City, Viet Nam, 4-6 May 2016).
***The book covers a wide range
of topics within mathematics
applied in reliability, risk and
engineering, including:- Risk
and Relia
Modelling and Simulation in***

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***Science, Technology and
Engineering Mathematics
An Introduction to Numerical
Methods and Analysis
The Interstellar Age
Foundations of Embodied
Learning***

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ICFAS 2020

***Advanced Applications of
Fractional Differential
Operators to Science and
Technology***

***Proceedings of the 1st
International Conference on***

Page 46/194

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***Applied Mathematics in
Engineering and Reliability
(Ho Chi Minh City, Vietnam, 4-6
May 2016)***

This is a story of Nigeria, told from the inside. After a successful career in the private sector, Nasir El-Rufai rose to

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the top ranks of Nigeria's political hierarchy, serving first as the privatization czar at the Bureau for Public Enterprises and then as Minister of the Federal Capital Territory of Abuja under former President Olesegun Obasanjo. In this tell-all memoir, El-Rufai reflects on a life in public service

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to Nigeria, the enormous challenges faced by the country, and what can be done while calling on a new generation of leaders to take the country back from the brink of destruction. The shocking revelations disclosed by El-Rufai about the formation of the current leadership and the actions of prominent statesmen

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make this memoir required reading for anyone seeking to understand the dynamics of power politics in Africa's most populous nation.

The book comprises papers presented at the 7th International Conference on University Learning and Teaching (InCULT) 2014, which was hosted by

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**the Asian Centre for Research on
University Learning and Teaching
(ACRULeT) located at the Faculty of
Education, Universiti Teknologi MARA,
Shah Alam, Malaysia. It was co-hosted
by the University of Hertfordshire, UK;
the University of South Australia; the
University of Ohio, USA; Taylor's**

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University, Malaysia and the Training Academy for Higher Education (AKEPT), Ministry of Education, Malaysia. A total of 165 papers were presented by speakers from around the world based on the theme “Educate to Innovate in the 21st Century.” The papers in this timely book cover the

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latest developments, issues and concerns in the field of teaching and learning and provide a valuable reference resource on university teaching and learning for lecturers, educators, researchers and policy makers.

The construction industry is amidst a digital transformation that is focused on

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addressing well-documented issues and calls for significant improvements and changes through increased productivity, whole-life value, client focus, reduction of waste, and being more sustainable. The key aspect to driving change and transformation is the education and upskilling of the required workforce

towards developing the required capacities. Various approaches can be taken to embed digital construction within education and through collaborative efforts in order to drive change and facilitate improvements. The Handbook of Research on Driving Transformational Change in the Digital

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Built Environment focuses on current developments in practice and education towards facilitating transformation in the built environment. This book provides insight, from a practice perspective, in relation to the client's understanding, digitally enabled collaboration, interoperability and open

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standards, and maturity/capability. Covering topics that include digital transformation and construction, digitally enabled infrastructure, building information modelling, collaborative digital education, and the digital built environment, this book is an ideal reference source for engineers,

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professionals, and researchers in the field of digital transformation as well as doctoral scholars, doctoral researchers, professionals, and academicians.

This is the first volume of the Biographical Dictionary of South Sudan, an ongoing research project begun in July 2001. As the subtitle of

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the book, the Notable Firsts, suggests, this volume is primarily concerned with historically significant South Sudanese personalities, deceased and contemporary alike, and their illustrious careers. Luminaries from all walks of life are featured, including politics, traditional leadership, civil

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service, academia, and sports. This book has several main aims. Its primary aim is historical. It presents biographical profiles or accounts of the entrants and highlights the accomplishments and contributions of entrants in their respective fields of expertise or in the public sphere. But the aim of this study

is not only to preset entrants' biographies. It is mostly to place the entries in a broader historical perspective. The biographical dictionary, though concerned about personal accounts of entrants, it discusses pivotal events that shaped the history of South Sudan. The biographies

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are essentially linked to historical events that shaped or influenced the country's trajectory throughout the period in question. Central to understanding the history of South Sudan is the biographical information of personalities who have taken part in major events or who have assumed

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important offices in the country.

Beyond Stereotypes

**Advanced Research in Technologies,
Information, Innovation and
Sustainability**

**Smart Financial Applications in Big
Data Environments**

Proceedings of the 6th International

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**Conference on Fundamental and
Applied Sciences
Linear and Nonlinear Filtering for
Scientists and Engineers
7th International Conference on
University Learning and Teaching
(InCULT 2014) Proceedings
Monthly Catalogue, United States**

Page 64/194

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Public Documents

The story of the men and women who drove NASA's Voyager spacecraft mission—the farthest-flung emissaries of planet Earth—told by a scientist who was there from the beginning. Voyager 1 left our solar system in

2012; its sister craft, Voyager 2, did so in 2018. The fantastic journey began in 1977, before the first episode of Cosmos aired. The mission was planned as a grand tour beyond the moon; beyond Mars, Jupiter, Saturn, Uranus and Neptune; and maybe even into

interstellar space. The fact that it actually happened makes this humanity's greatest space mission. In The Interstellar Age, award-winning planetary scientist Jim Bell reveals what drove and continues to drive the members of this extraordinary team,

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including Ed Stone, Voyager's chief scientist and the one-time head of NASA's Jet Propulsion Lab; Charley Kohlhase, an orbital dynamics engineer who helped to design many of the critical slingshot maneuvers around planets that enabled the Voyagers

to travel so far; and the geologist whose Earth-bound experience would prove of little help in interpreting the strange new landscapes revealed in the Voyagers' astoundingly clear images of moons and planets. Speeding through space at a

mind-bending eleven miles a second, Voyager 1 and Voyager 2 are now beyond our solar system's planets, the first man-made objects to go interstellar. By the time Voyager passes its first star in about 40,000 years, the gold record on the spacecraft,

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containing various music and images including Chuck Berry's "Johnny B. Goode," will still be playable. *An ALA Notable Book of 2015*

A Textbook on Automata Theory has been designed for students of computer science. Adopting a

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comprehensive approach to the subject, the book presents various concepts with adequate explanations. The logical and structured treatment of the subject promotes better understanding and assimilation. Lucid and well-structured

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presentation makes the book user-friendly. The book cover the curricula for M.C.A., B.E.(Computer Science) and M.Sc. (Computer Science) at various universities and gives students a strong foundation for advanced studies in the field. Key

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features: . A wide array of solved examples and applications . Numerous illustrations supporting theoretical inputs . Exercises at the end of each chapter for practice . Notation for describing machine models . A brief history of mathematicians

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and computer scientists

*This book presents the
proceedings of the First National
Conference on “Sustainable
Management of Environment &
Natural Resource through
Innovation in Science and
Technology” (SMTST2020). The*

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book highlights the latest development and innovations in the fields of sustainability, natural resource management, ecology and its environmental fields, geosciences and geology, atmospheric sciences, sustainability, climate change,

and extreme weather, global warming, and global change, the effect of climate change on the ecosystem, environment, and pollution, as well as putting a strong emphasis on the multidisciplinary studies. In recent years significant

applications of systems and control theory have been witnessed in diversified areas such as physical sciences, social sciences, engineering, management and finance. In particular the most interesting applications have taken place in

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areas such as aerospace, buildings and space structure, suspension bridges, artificial heart, chemotherapy, power system, hydrodynamics and computer communication networks. There are many prominent areas of systems and

control theory that include systems governed by linear and nonlinear ordinary differential equations, systems governed by partial differential equations including their stochastic counter parts and, above all, systems governed by abstract differential

and functional differential equations and inclusions on Banach spaces, including their stochastic counterparts. The objective of this book is to present a small segment of theory and applications of systems and control governed by ordinary

differential equations and inclusions. It is expected that any reader who has absorbed the materials presented here would have no difficulty to reach the core of current research.

Intelligent Manufacturing and Mechatronics

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***"STEM" the Tide
Development of Employability
Skills Through Pragmatic
Assessment of Student Learning
Outcomes***

***Nature-Inspired Metaheuristic
Algorithms for Engineering***

Page 83/194

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Optimization Applications

Educate to Innovate

***Handbook of Research on Driving
Transformational Change in the
Digital Built Environment***

Throughout the industry, financial
institutions seek to eliminate
cumbersome authentication

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methods, such as PINs, passwords, and security questions, as these antiquated tactics prove increasingly weak. Thus, many organizations now aim to implement emerging technologies in an effort to validate identities

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with greater certainty. The near instantaneous nature of online banking, purchases, transactions, and payments puts tremendous pressure on banks to secure their operations and procedures. In order to reduce the risk of human

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error in financial domains, expert systems are seen to offer a great advantage in big data environments. Besides their efficiency in quantitative analysis such as profitability, banking management, and strategic

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financial planning, expert systems have successfully treated qualitative issues including financial analysis, investment advisories, and knowledge-based decision support systems. Due to the increase in financial

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applications ' size, complexity, and number of components, it is no longer practical to anticipate and model all possible interactions and data processing in these applications using the traditional data processing model. The

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emergence of new research areas is clear evidence of the rise of new demands and requirements of modern real-life applications to be more intelligent. This book provides an exhaustive review of the roles of expert systems within

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the financial sector, with particular reference to big data environments. In addition, it offers a collection of high-quality research that addresses broad challenges in both theoretical and application aspects of intelligent

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and expert systems in finance. The book serves to aid the continued efforts of the application of intelligent systems that respond to the problem of big data processing in a smart banking and financial environment.

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Fractional-order calculus dates to the 19th century but has been resurrected as a prevalent research subject due to its provision of more adequate and realistic descriptions of physical aspects within the science and

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engineering fields. What was once a classical form of mathematics is currently being reintroduced as a new modeling technique that engineers and scientists are finding modern uses for. There is a need for research on all facets of

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these fractional-order systems and studies of its potential applications. Advanced Applications of Fractional Differential Operators to Science and Technology provides emerging research exploring the

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theoretical and practical aspects of novel fractional modeling and related dynamical behaviors as well as its applications within the fields of physical sciences and engineering. Featuring coverage on a broad range of topics such as

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chaotic dynamics, ecological models, and bifurcation control, this book is ideally designed for engineering professionals, mathematicians, physicists, analysts, researchers, educators, and students seeking current

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research on fractional calculus and other applied mathematical modeling techniques.

This book includes a set of rigorously reviewed world-class manuscripts addressing and detailing state-of-the-art research

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projects in the areas of Computer Science, Computer Engineering and Information Sciences. The book presents selected papers from the conference proceedings of the International Conference on Systems, Computing Sciences and

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Software Engineering (SCSS 2006).
All aspects of the conference were
managed on-line.
This volume contains the peer-
reviewed proceedings of the
International Conference on
Modelling and Simulation (MS-17),

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held in Kolkata, India, 4th-5th
November 2017, organized by the
Association for the Advancement
of Modelling and Simulation
Techniques in Enterprises (AMSE,
France) in association with the
Institution of Engineering

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Technology (IET, UK), Kolkata
Network. The contributions
contained here showcase some
recent advances in modelling and
simulation across various aspects
of science and technology. This
book brings together articles

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describing applications of modelling and simulation techniques in fields as diverse as physics, mathematics, electrical engineering, industrial electronics, control, automation, power systems, energy and robotics. It

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includes a special section on mechanical, fuzzy, optical and opto-electronic control of oscillations. It provides a snapshot of the state of the art in modelling and simulation methods and their applications, and will be of interest

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to researchers and engineering professionals from industry, academia and research organizations.

Applied Mathematics in
Engineering and Reliability
Proceedings of the 1st National

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Conference on Sustainable
Management of Environment and
Natural Resource Through
Innovation in Science and
Technology
Advanced Engineering
Mathematics

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Expert Systems in Finance
Advances in Environment
Engineering and Management
Minority Children of Immigrants in
Urban Schools
Dynamic Systems And Control
With Applications

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The COVID-19 pandemic has shifted the teaching-learning experience dramatically, creating an opportunity for new online and blended learning techniques and tools. This has also added a new

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dimension to practices and methods already adopted for achieving sustainable development goals (SDGs) within education. This requires a new paradigm shift in the teaching-learning process through the

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systemic and pragmatic
assessment of student
learning outcomes so that
employability skills and
competence can be developed
in students for competing at
the global level.

Development of Employability

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Skills Through Pragmatic
Assessment of Student
Learning Outcomes discusses
the best practices in the
assessment of student
learning objectives (SLOs),
the mapping of SLOs, and the
ways of developing

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employability skills in young minds so that SDGs may be achieved. It elaborates the theory, practice, and importance of developing employability skills through research-based learning. Covering topics such as

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graduate employability,
outcome-based education, and
technical undergraduate
programs, this premier
reference source is an
essential resource for
employers, libraries,
students and educators of

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higher education, faculty
and administration of higher
education, pre-service
teachers, government
organizations, business
leaders and managers, human
resource managers,
researchers, and

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academicians.

This book presents the
proceedings of SympoSIMM
2020, the 3rd edition of the
Symposium on Intelligent
Manufacturing and
Mechatronics. Focusing on
"Strengthening Innovations

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Towards Industry 4.0", the book presents studies on the details of Industry 4.0's current trends. Divided into five parts covering various areas of manufacturing engineering and mechatronics stream, namely, artificial

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intelligence,
instrumentation and
controls, intelligent
manufacturing, modelling and
simulation, and robotics,
the book will be a valuable
resource for readers wishing
to embrace the new era of

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Industry 4.0.

This book examines the current state of the field of mathematics pre-service teacher education through the theme of borders.

Borders are ubiquitous; they can be used to define,

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classify, organize, make sense of, and/or group.

There are many ways that the concept of a border illuminates the field of mathematics pre-service teacher education.

Consequently, there are a

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multitude of responses to these borders: researchers and practitioners question, challenge, cross, blur, and erase them. Chapters include the following topics:
explorations of mathematics across topics (e.g.,

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geometry, algebra,
probability) and with other
disciplines (e.g., science,
the arts, social sciences);
challenging gender,
cultural, and racial
borders; exploring the
structure and curriculum of

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teacher education programs;
spaces inhabited by teacher
education programs (e.g.,
university, community); and
international collaborations
and programs to promote
cross-cultural sharing and
learning. The book targets a

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readership of researchers
and graduate students in
integrated education
studies, teacher education,
practitioners of mathematics
education, curriculum
developers, and educational
administrators and policy

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makers.

The book combines both rigor and intuition to derive most of the classical results of linear and nonlinear filtering and beyond. Many fundamental results recently discovered by the author are

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included. Furthermore, many results that have appeared in recent years in the literature are also presented. The most interesting feature of the book is that all the derivations of the linear

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filter equations given in Chapters 3–11, beginning from the classical Kalman filter presented in Chapters 3 and 5, are based on one basic principle which is fully rigorous but also very intuitive and easily

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understandable. The second most interesting feature is that the book provides a rigorous theoretical basis for the numerical solution of nonlinear filter equations illustrated by multidimensional examples.

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The book also provides a strong foundation for theoretical understanding of the subject based on the theory of stochastic differential equations.

Contents: Introduction to Stochastic

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Processes Stochastic
Differential Equations Kalman
Filtering for Linear Systems
Driven by Wiener Process
I Kalman Filtering for Linear
Systems Driven by Wiener
Process II Discrete Kalman
Filtering Linear Filtering

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with Correlated Noise
Linear Filtering with
Correlated Noise Linear
Filtering with Correlated
Noise Linear Filtering of
Jump Processes Linear
Filtering with
Constraints Filtering for

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Linear Systems Driven by
Second Order Random
ProcessesExtended Kalman
Filtering I, II and
IIINonlinear
FilteringNumerical
Techniques for Nonlinear
FilteringPartially Observed

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ControlSystem Identification
Readership: Researchers in
analysis & differential
equations, applied
mathematics, probability &
statistics, numerical &
computational methods,
statistical physics,

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engineering, chaos/dynamical
systems and
economics/finance.

Keywords: Stochastic
Systems; Kalman

Filtering; Nonlinear

Filtering; Jump Processes; Ide
ntification; Numerical

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filtering theory and its
applications can find
inspiring ideas and
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in Malaysia, South Korea,
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Asian academics, this book
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Chapters 7 and 11 of this book are freely available as a downloadable Open

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In recent years, it was

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realized that Radio
Cognitive Systems seems to
be a real need in the near
future
evolution, especially
because of the severe
spectrum regulations and

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channel congestion problems. Moreover high data rates become more and more necessary for normal professional needs or at home based users.

Cognitive radio systems

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were first defined in the late of 1990s. The idea is to integrate a new concept of channel environmental sensing, followed by a knowledge based standard learning, which in return

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helps to identify free channel spectrum slots. These slots can be used by a third party user in a way to take advantage of the unused spectrum. This type of communication

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provides dynamic opportunistic algorithm for spectrum access. The new concept has to be adaptive and based on a reconfigurable hardware with a real time

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processing. Such cognitive radio systems can be also used in indoor wireless communications, where more and more wireless peripherals and tools are used in a limited space,

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and once again data packet congestion is a real problem. This book is written by specialists working in the field of telecommunication and signal processing. Various

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aspects of the radio cognitive systems are discussed with some applications and implementations such as software defined radios. The book is composed of

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seven chapters; as each chapter is written in a self-contained manner, the reader can use the book without any restrictive ordering of the chapters. At the end of the chapters

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there are valuable references that provide in depth coverage of the application...

In an era of ever increasing anti-immigrant sentiment and in the face

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of the worst economic recession since the great depression, this book presents a timely, compassionate and often moving glimpse into the lives of second generation

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children of immigrants in urban schools.

This book engages in an ongoing topic, such as the implementation of nature-inspired metaheuristic algorithms, with a main

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concentration on optimization problems in different fields of engineering optimization applications. The chapters of the book provide concise overviews of

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various nature-inspired
metaheuristic algorithms,
defining their profits in
obtaining the optimal
solutions of tiresome
engineering design
problems that cannot be

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efficiently resolved via conventional mathematical-based techniques. Thus, the chapters report on advanced studies on the applications of not only the traditional, but also

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the contemporary certain
nature-inspired
metaheuristic algorithms
to specific engineering
optimization problems with
single and multi-
objectives. Harmony

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search, artificial bee colony, teaching learning-based optimization, electrostatic discharge, grasshopper, backtracking search, and interactive search are just some of

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the methods exhibited and consulted step by step in application contexts. The book is a perfect guide for graduate students, researchers, academicians, and professionals willing

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to use metaheuristic
algorithms in engineering
optimization applications.
Language in the Making of
Malaysia
The Accidental Public
Servant

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Publications
Age of Inference
Proceedings of SymposIMM

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2020

Spaces of Educative
Possibility and Their
Implications for Public
Policy

***"While much is known
about the critical***

importance of educative experiences outside of school, little is known about the social systems, community programs, and everyday practices that can

***facilitate learning
outside of the
classroom. Thinking
Comprehensively About
Education sheds much-
needed light on those
systems, programs, and***

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***practices. This original
edited collection
identifies and describes
the resources that
enable optimal human
learning and
development, and offers***

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***a public policy
framework that can
enable a truly
comprehensive
educational system" --
Provided by publisher.
In an age where we are***

***inundated with
information, the ability
to discern verifiable
information to make
proper decisions and
solve problems is ever
more critical. Modern***

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science, which espouses a systematic approach to making “inferences,” requires a certain mindset that allows for a degree of comfort with uncertainty. This book

offers inspirations and ideas for cultivating the proper mindset for the studying, teaching, and practicing of science that will be useful for those new to

as well as familiar with the field. Although a paradigm shift from traditional instruction is suggested in the National Framework for K-12 science, this

volume is intended to help educators develop a personal mental framework in which to transition from a teacher-centered, didactical approach to a

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***student-centered,
evidence-guided
curriculum. While the
topics of the book
derive from currently
published literature on
STEM education as they***

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***relate to the National
Framework for K-12
Science and the Three-
Dimensional science
instruction embedded in
the Next Generation
Science Standards, this***

book also examines these topics in the context of a new societal age posited as the "Age of Inference" and addresses how to make sense of the ever-increasing deluge

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***of information that we
are experiencing by
having a scientific and
properly discerning
mindset. ENDORSEMENTS:
"This volume takes on
one of the thorniest***

***existential problems of
our time, the
contradiction between
the exponentially
growing amount of
information that
individuals have access***

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to, and the diminished capacity of those individuals to understand it. Its chapters provide the reader with an introduction to the

***relationship between
knowledge, science, and
inference; needed new
approaches to learning
science in our new data
rich world; and a
discussion of what we***

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*can and must do to
reduce or eliminate the
growing gap between the
inference have's and
have nots. It is not too
much to say that how we
resolve the issues*

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***outlined in this volume
will determine the
future of our species on
this planet." – Joseph
L. Graves Jr., Professor
of Biological Sciences
North Carolina A&T State***

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***University, Fellow,
American Association for
the Advancement of
Science: Biological
Sciences, Author of: The
Emperor's New Clothes:
Biological Theories of***

***Race at the Millennium
"Big data is not enough
for addressing dangers
to the environment or
tackling threats to
democracy; we need the
ability to draw sound***

inferences from the data. Cultivating a scientific mindset requires fundamental changes to the way we teach and learn. This important and well

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***-written volume shows
how." – Ashok Goel,
Professor of Computer
Science and Human
Centered Computing,
Georgia Institute of
Technology. Editor of AI***

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***Magazine Founding Editor
of AAAI's Interactive AI
Magazine "If you are a
science teacher
concerned about the
implications of
information overload,***

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analysis paralysis, and intellectual complacency on our health, economic future, and democracy, then I recommend this book." – Michael Svec, Professor for Physics

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***and Astronomy Education,
Furman University,
Fulbright Scholar to
Czech Republic
Inside the Forty-Year
Voyager Mission
South Sudan***

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