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KEY=SCIENCE - MOHAMMED BURCH

RADICAL SOLUTIONS AND OPEN SCIENCE

AN OPEN APPROACH TO BOOST HIGHER EDUCATION

Springer Nature This open access book presents how Open Science is a powerful tool to boost Higher Education. The book introduces the reader into Open Access, Open Technology, Open Data, Open Research results, Open Licensing, Open Accreditation, Open Certification, Open Policy and, of course, Open Educational Resources. It brings all these key topics from major players in the field; experts that present the current state of the art and the forthcoming steps towards a useful and effective implementation. This book presents radical, transgenic solutions for recurrent and long-standing problems in Higher Education. Every chapter presents a clear view and a related solution to make Higher Education progress and implement tools and strategies to improve the user's performance and learning experience. This book is part of a trilogy with companion volumes on Radical Solutions & Learning Analytics and Radical Solutions & eLearning.

ACIDS AND BASES

Infobase Publishing Takes a closer look at acids and bases and how they play key roles in our lives.

SCIENCE

Vols. for 1911-13 contain the Proceedings of the Helminthological Society of Washington, ISSN 0018-0120, 1st-15th meeting.

GEMS OF THEORETICAL COMPUTER SCIENCE

Springer Science & Business Media This book assembles some of the most important problems and solutions in theoretical computer science—from computability, logic, circuit theory, and complexity. The book presents these important results with complete proofs in an understandable form. It also presents previously open problems that have found (perhaps unexpected) solutions, and challenges the reader to pursue further active research in computer science.

SCIENCE PROGRESS

THE NUMERICAL SOLUTION OF SYSTEMS OF POLYNOMIALS ARISING IN ENGINEERING AND SCIENCE

World Scientific ' Written by the founders of the new and expanding field of numerical algebraic geometry, this is the first book that uses an algebraic-geometric approach to the numerical solution of polynomial systems and also the first one to treat numerical methods for finding positive dimensional solution sets. The text covers the full theory from methods developed for isolated solutions in the 1980's to the most recent research on positive dimensional sets.

Contents:Background:Polynomial SystemsHomotopy ContinuationProjective SpacesGenericity and Probability OnePolynomials of One VariableOther MethodsIsolated Solutions:Coefficient-Parameter HomotopyPolynomial StructuresCase StudiesEndpoint EstimationChecking Results and Other Implementation TipsPositive Dimensional Solutions:Basic Algebraic GeometryBasic Numerical Algebraic GeometryA Cascade Algorithm for Witness SupersetsThe Numerical Irreducible DecompositionThe Intersection of Algebraic SetsAppendices:Algebraic GeometrySoftware for Polynomial ContinuationHomLab User's Guide Readership: Graduate students and researchers in applied mathematics and mechanical engineering. Keywords:Polynomial Systems;Numerical Methods;Homotopy Methods;Mechanical Engineering;Numerical Algebraic Geometry;Kinematics;RoboticsKey Features:Useful introduction to the field for graduate students and researchers in related areasIncludes exercises suitable for classroom use and self-studyIncludes Matlab software to illustrate the methodIncludes many graphical illustrationsIncludes a detailed summary of useful results from algebraic geometryReviews:"The text is written in a very smooth and intelligent form, yielding a readable book whose contents are accessible to a wide class of readers, even to undergraduate students, provided that they accept that some delicate points of some of the proofs could be omitted. Its readability and fast access to the core of the book makes it recommendable as a pleasant read."Mathematical Reviews "This is an excellent book on numerical solutions of polynomials systems for engineers, scientists and numerical analysts. As pioneers of the field of numerical algebraic geometry, the authors have provided a comprehensive summary of ideas, methods, problems of numerical algebraic geometry and applications to solving polynomial systems. Through the book readers will experience the authors' original ideas, contributions and their techniques in handling practical problems ... Many interesting examples from engineering and

science have been used throughout the book. Also the exercises are well designed in line with the content, along with the algorithms, sample programs in Matlab and author's own software 'HOMLAB' for polynomial continuation. This is a remarkable book that I recommend to engineers, scientists, researchers, professionals and students, and particularly numerical analysts who will benefit from the rapid development of numerical algebraic geometry."Zentralblatt MATH '

A DICTIONARY OF SCIENCE, LITERATURE, & ART

COMPRISING THE DEFINITIONS AND DERIVATIONS OF THE SCIENTIFIC TERMS IN GENERAL USE, TOGETHER WITH THE HISTORY AND DESCRIPTIONS OF THE SCIENTIFIC PRINCIPLES OF NEARLY EVERY BRANCH OF HUMAN KNOWLEDGE

NEW HORIZONS IN DESIGN SCIENCE: BROADENING THE RESEARCH AGENDA

10TH INTERNATIONAL CONFERENCE, DESRIST 2015, DUBLIN, IRELAND, MAY 20-22, 2015, PROCEEDINGS

Springer This book constitutes the thoroughly refereed proceedings of the 10th International Conference on Design Science Research in Information Systems and Technology, DESRIST 2015, held in Dublin, Ireland, in May 2015. The 22 full papers, 11 short papers and 10 short papers describing prototypes and products were carefully reviewed and selected from 111 submissions. The papers are organized in topical sections on design science research in action; meta perspectives; data mining and analytics; emerging themes; design practice and design thinking; and prototypes.

USMLE STEP 1 LECTURE NOTES 2017: BEHAVIORAL SCIENCE AND SOCIAL SCIENCES

Simon and Schuster Publisher's Note: Products purchased from 3rd party sellers are not guaranteed by the publisher for quality, authenticity, or access to any online entitles included with the product. The only official Kaplan Lecture Notes for USMLE Step 1 cover the comprehensive information you need to ace the exam and match into the residency of your choice. * Up-to-date: Updated annually by Kaplan's all-star faculty. This edition includes a section on Patient Safety Science, a topic that was recently added to the exam. * Integrated: Packed with clinical correlations and bridges between disciplines * Learner-efficient: Organized in outline format with high-yield summary boxes * Trusted: Used by thousands of students each year to succeed on USMLE Step 1

INNOVATION IN MATERIALS SCIENCE AND EMERGING TECHNOLOGY

Trans Tech Publications Ltd This conference covered a wide range of fields in science and engineering innovation and aimed to bring together engineering technology expertise. It offered a great opportunity for professionals from industry,

academia and government to discuss research and development, professional practice, business and management in scientific and engineering fields; including currently emerging new research topics in engineering and technological innovation. The conference permitted interdisciplinary collaboration between science and engineering technologists in the academic and industrial fields as well as providing an opportunity for international networking.

DIMENSIONALITY REDUCTION IN DATA SCIENCE

Springer Nature This book provides a practical and fairly comprehensive review of Data Science through the lens of dimensionality reduction, as well as hands-on techniques to tackle problems with data collected in the real world. State-of-the-art results and solutions from statistics, computer science and mathematics are explained from the point of view of a practitioner in any domain science, such as biology, cyber security, chemistry, sports science and many others. Quantitative and qualitative assessment methods are described to implement and validate the solutions back in the real world where the problems originated. The ability to generate, gather and store volumes of data in the order of tera- and exo bytes daily has far outpaced our ability to derive useful information with available computational resources for many domains. This book focuses on data science and problem definition, data cleansing, feature selection and extraction, statistical, geometric, information-theoretic, biomolecular and machine learning methods for dimensionality reduction of big datasets and problem solving, as well as a comparative assessment of solutions in a real-world setting. This book targets professionals working within related fields with an undergraduate degree in any science area, particularly quantitative. Readers should be able to follow examples in this book that introduce each method or technique. These motivating examples are followed by precise definitions of the technical concepts required and presentation of the results in general situations. These concepts require a degree of abstraction that can be followed by re-interpreting concepts like in the original example(s). Finally, each section closes with solutions to the original problem(s) afforded by these techniques, perhaps in various ways to compare and contrast dis/advantages to other solutions.

ENVIRONMENTAL SCIENCE

Cengage Learning Inspiring people to care about the planet ... In the new edition of ENVIRONMENTAL SCIENCE, authors Tyler Miller and Scott Spoolman have partnered with the National Geographic Society to develop a text that will equip you with the inspiration and knowledge you need to make a difference solving today's environmental issues. Exclusive content highlights important work of National Geographic Explorers and Grantees and features over 180 new photos, maps, and illustrations that bring course concepts to life. Using this empowering book, you will learn how nature works, how you interact with it, and how you can use various scientific principles based on how nature has sustained life on the earth for billions of years to live more sustainably. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook

version.

A DICTIONARY OF SCIENCE, LITERATURE, AND ART ... WITH THE DERIVATION AND DEFINITION OF ALL THE TERMS IN GENERAL USE. EDITED BY W. T. BRANDE ... ASSISTED BY JOSEPH CAUVIN, ETC

A DICTIONARY OF SCIENCE

COMPRISING ASTRONOMY, CHEMISTRY, DYNAMICS, ELECTRICITY, HEAT, HYDRODYNAMICS, HYDROSTATICS, LIGHT, MAGNETISM, MECHANICS, METEOROLOGY, PNEUMATICS, SOUND, AND STATICS; PRECEDED BY AN ESSAY ON THE HISTORY OF THE PHYSICAL SCIENCES

THE PHARMACEUTICAL ERA

ELEMENTS OF SCIENTIFIC COMPUTING

Springer Science & Business Media Science used to be experiments and theory, now it is experiments, theory and computations. The computational approach to understanding nature and technology is currently flowering in many fields such as physics, geophysics, astrophysics, chemistry, biology, and most engineering disciplines. This book is a gentle introduction to such computational methods where the techniques are explained through examples. It is our goal to teach principles and ideas that carry over from field to field. You will learn basic methods and how to implement them. In order to gain the most from this text, you will need prior knowledge of calculus, basic linear algebra and elementary programming.

REPRODUCIBILITY AND REPLICABILITY IN SCIENCE

National Academies Press One of the pathways by which the scientific community confirms the validity of a new scientific discovery is by repeating the research that produced it. When a scientific effort fails to independently confirm the computations or results of a previous study, some fear that it may be a symptom of a lack of rigor in science, while others argue that such an observed inconsistency can be an important precursor to new discovery. Concerns about reproducibility and replicability have been expressed in both scientific and popular media. As these concerns came to light, Congress requested that the National Academies of Sciences, Engineering, and Medicine conduct a study to assess the extent of issues related to reproducibility and replicability and to offer recommendations for improving rigor and transparency in scientific research. Reproducibility and Replicability in Science defines reproducibility and replicability and examines the factors that may lead to non-reproducibility and non-replicability in research. Unlike the typical expectation of reproducibility between two computations, expectations about replicability are more nuanced, and in some cases a lack of replicability can aid the process of scientific discovery. This report provides recommendations to researchers, academic institutions, journals, and funders on steps they can take to improve reproducibility and replicability in science.

A DICTIONARY OF DENTAL SCIENCE

CONSISTING OF WORDS AND PHRASES USED IN DENTAL LITERATURE AND SUCH WORDS OF THE COLLATERAL SCIENCES AS RELATE TO THE ART AND SCIENCE OF DENTISTRY, WITH THEIR PRONUNCIATION, DERIVATION AND DEFINITION

A DICTIONARY OF SCIENTIFIC UNITS

INCLUDING DIMENSIONLESS NUMBERS AND SCALES

Springer and by the Librarians and Staffs of the University and the Public Libraries at Southampton. Finally, we wish to thank Mrs H. G. Jerrard and Miss A. J. Tutte for typing the manuscript. Department of Physics H. G. JERRARD D. B. McNEILL University of Southampton 1963 Preface to the fifth edition Since the publication of the fourth edition in 1980 advances in technology have led to more precise values of the fundamental physical constants and a movement towards definitions of the fundamental units of mass, length and time based on atomic parameters. More precise definitions of some other units such as the candela have been approved by the international committees. These changes, together with the definitions of several new units have been included in this edition, the text of which has been revised and which now contains over 850 units and dimensionless numbers. The authors wish to thank all those who have helped in this latest compilation by suggestion and kindly criticism and Margaret Wainwright who has had the difficult and tedious task of typing, retyping and copying the fragmented parts that arise from a text revision. At the time of going to press we believe this book to provide the most complete and up-to-date information of its kind available.

DATA SCIENCE SOLUTIONS

LAPTOP STARTUP TO CLOUD SCALE DATA SCIENCE WORKFLOW

The field of data science, big data, machine learning, and artificial intelligence is exciting and complex at the same time. Data science is also rapidly growing with new tools, technologies, algorithms, datasets, and use cases. For a beginner in this field, the learning curve can be fairly daunting. This is where this book helps. The data science solutions book provides a repeatable, robust, and reliable framework to apply the right-fit workflows, strategies, tools, APIs, and domain for your data science projects. This book takes a solutions focused approach to data science. Each chapter meets an end-to-end objective of solving for data science workflow or technology requirements. At the end of each chapter you either complete a data science tools pipeline or write a fully functional coding project meeting your data science workflow requirements. SEVEN STAGES OF DATA SCIENCE SOLUTIONS WORKFLOW Every chapter in this book will go through one or more of these seven stages of data science solutions workflow. STAGE 1: Question. Problem. Solution. Before starting a data science project we must ask relevant questions specific to our project domain and datasets. We may answer or solve these during the course of our

project. Think of these questions-solutions as the key requirements for our data science project. Here are some templates that can be used to frame questions for our data science projects. Can we classify an entity based on given features if our data science model is trained on certain number of samples with similar features related to specific classes? Do the samples, in a given dataset, cluster in specific classes based on similar or correlated features? Can our machine learning model recognise and classify new inputs based on prior training on a sample of similar inputs?

STAGE 2: Acquire. Search. Create. Catalog. This stage involves data acquisition strategies including searching for datasets on popular data sources or internally within your organisation. We may also create a dataset based on external or internal data sources. The acquire stage may feedback to the question stage, refining our problem and solution definition based on the constraints and characteristics of the acquired datasets.

STAGE 3: Wrangle. Prepare. Cleanse. The data wrangle phase prepares and cleanses our datasets for our project goals. This workflow stage starts by importing a dataset, exploring the dataset for its features and available samples, preparing the dataset using appropriate data types and data structures, and optionally cleansing the data set for creating model training and solution testing samples. The wrangle stage may circle back to the acquire stage to identify complementary datasets to combine and complete the existing dataset.

STAGE 4: Analyse. Patterns. Explore. The analyse phase explores the given datasets to determine patterns, correlations, classification, and nature of the dataset. This helps determine choice of model algorithms and strategies that may work best on the dataset. The analyse stage may also visualize the dataset to determine such patterns.

STAGE 5: Model. Predict. Solve. The model stage uses prediction and solution algorithms to train on a given dataset and apply this training to solve for a given problem.

STAGE 6: Visualize. Report. Present. The visualization stage can help data wrangling, analysis, and modeling stages. Data can be visualized using charts and plots suiting the characteristics of the dataset and the desired results. Visualization stage may also provide the inputs for the supply stage.

STAGE 7: Supply. Products. Services. Once we are ready to monetize our data science solution or derive further return on investment from our projects, we need to think about distribution and data supply chain. This stage circles back to the acquisition stage. In fact we are acquiring data from someone else's data supply chain.

SCIENCE, TECHNOLOGY AND GOVERNANCE

Psychology Press This anthology examines Love's Labours Lost from a variety of perspectives and through a wide range of materials. Selections discuss the play in terms of historical context, dating, and sources; character analysis; comic elements and verbal conceits; evidence of authorship; performance analysis; and feminist interpretations. Alongside theater reviews, production photographs, and critical commentary, the volume also includes essays written by practicing theater artists who have worked on the play. An index by name, literary work, and concept rounds out this valuable resource.

A DICTIONARY OF SCIENCE

Oxford University Press, USA This best-selling dictionary contains 9,200 entries on all aspects of chemistry, physics, biology (including human biology), earth sciences, and astronomy. This new edition includes expanded coverage of global warming, forensic science, astrophysics, quantum theory, and the solar system. Supported by over 200 diagrams and illustrations the dictionary features recommended web links for many entries, accessed and kept up-to-date via the Dictionary of Science companion website. Other features include short biographies of leading scientists, full page illustrated features on subjects such as the Solar System and Genetically Modified Organisms, and chronologies of specific scientific subjects including plastics, electronics, and cell biology. Both concise and wide-ranging, this dictionary is an ideal reference work for students and a great introduction for non-scientists.

INTRODUCTION TO MANAGEMENT SCIENCE

For courses in Management Science, Quantitative Methods or Decision Models. This widely adopted text presents an accessible introduction to the techniques and applications of management science. It is designed to make the subject easy to understand, interesting and accessible for students with limited mathematical background or skills. The author focuses on management science not only as a collection of techniques and processes, but as a philosophy and method for approaching problems in a logical manner, and includes spreadsheets with solutions in every chapter.

DESIGN ENGINEERING AND SCIENCE

Springer Nature Design Engineering and Science teaches the theory and practice of axiomatic design (AD). It explains the basics of how to conceive and deliver solutions to a variety of design problems. The text shows how a logical framework and scientific basis for design can generate creative solutions in many fields, including engineering, materials, organizations, and a variety of large systems. Learning to apply the systematic methods advocated by AD, a student can construct designs that lead to better environmental sustainability and to increased quality of life for the end-user at the same time reducing the overall cost of the product development process. Examples of previous innovations that take advantage of AD methods include: • on-line electric vehicle design for electric buses with wireless power supply; • mobile harbors that allow unloading of large ships in shallow waters; • microcellular plastics with enhanced toughness and lower weight; and • organizational changes in companies and universities resulting in more efficient and competitive ways of working. The book is divided into two parts. Part I provides detailed and thorough instruction in the fundamentals of design, discussing why design is so important. It explains the relationship between and the selection of functional requirements, design parameters and process variables, and the representation of design outputs. Part II presents multiple applications of AD, including examples from manufacturing, healthcare, and materials processing. Following a course based on this text students learn to create new products and

design bespoke manufacturing systems. They will gain insight into how to create imaginative design solutions that satisfy customer needs and learn to avoid introducing undue complexity into their designs. This informative text provides practical and academic insight for engineering design students and will help instructors teach the subject in a novel and more rigorous fashion. Their knowledge of AD will stand former students in good stead in the workplace as these methods are both taught and used in many leading industrial concerns.

ANNUAL REPORT - NATIONAL SCIENCE FOUNDATION

LECTURE-NOTES ON THEORETICAL CHEMISTRY

THE ENCYCLOPEDIA BRITANNICA A DICTIONARY OF ARTS, SCIENCES, AND GENERAL LITERATURE

RELATIONS

THE FOUNDATION OF MATHEMATICS, SCIENCE AND MIND

Sharebooks Publishing There is a flaw in making set theory the foundation of mathematics: the definition of a relation is circular, because other relations are required to define it. The solution to this flaw is to make relations primitive, and define sets and set theory in terms of relations. It turns out that all of set theory can be built on relations, without any logical inconsistencies -- and by extension, all of mathematics, logic, and physics. This readjustment of foundations leads to some surprising results. It allows us to resolve many of the paradoxes that have plagued physicists and philosophers for centuries. To add even more clarity, we need to make a clear distinction between two worlds. The empirical world is everything that exists and is perceptible. And the noumenal world is everything that exists independent of the senses. Our everyday perceptions are of the empirical world; and theoretical science is the tool we use to describe the noumenal world. This distinction gives us further resolutions to a number of flaws in common-sense logic. We now have solutions to the problem of cosmic coincidences, the mind-body problem, the problem of induction, and the problem of being. And we have explanations of how theoretical science can predict empirical novelty, and why the noumenal world exists necessarily. And we also have a relational basis of truth, beauty, and goodness. Using symbolic logic, this book introduces formal proofs of these and other concepts -- remarkably, arriving at a proof of Leibniz's statement that we live in the best of all possible worlds.

CHEMICAL NEWS AND JOURNAL OF PHYSICAL SCIENCE

CHEMICAL NEWS AND JOURNAL OF INDUSTRIAL SCIENCE

THE CHEMICAL NEWS AND JOURNAL OF INDUSTRIAL SCIENCE

THE CHEMICAL NEWS AND JOURNAL OF PHYSICAL SCIENCE

ENGLISH MECHANIC AND WORLD OF SCIENCE

WITH WHICH ARE INCORPORATED "THE MECHANIC", "SCIENTIFIC OPINION," AND THE "BRITISH AND FOREIGN MECHANIC."

COMPUTER SCIENCE AND DATA BANKS

PAPERS PRESENTED AT THE EIGHTH INTERNATIONAL CODATA CONFERENCE, JACHRANKA, POLAND, 4-7 OCTOBER 1982 : AT THE INVITATION OF THE POLISH ACADEMY OF SCIENCES

THE OXFORD COMPANION TO THE HISTORY OF MODERN SCIENCE

Oxford University Press Containing 609 encyclopedic articles written by more than 200 prominent scholars, The Oxford Companion to the History of Modern Science presents an unparalleled history of the field invaluable to anyone with an interest in the technology, ideas, discoveries, and learned institutions that have shaped our world over the past five centuries. Focusing on the period from the Renaissance to the early twenty-first century, the articles cover all disciplines (Biology, Alchemy, Behaviorism), historical periods (the Scientific Revolution, World War II, the Cold War), concepts (Hypothesis, Space and Time, Ether), and methodologies and philosophies (Observation and Experiment, Darwinism). Coverage is international, tracing the spread of science from its traditional centers and explaining how the prevailing knowledge of non-Western societies has modified or contributed to the dominant global science as it is currently understood. Revealing the interplay between science and the wider culture, the Companion includes entries on topics such as minority groups, art, religion, and science's practical applications. One hundred biographies of the most iconic historic figures, chosen for their contributions to science and the interest of their lives, are also included. Above all The Oxford Companion to the History of Modern Science is a companion to world history: modern in coverage, generous in breadth, and cosmopolitan in scope. The volume's utility is enhanced by a thematic outline of the entire contents, a thorough system of cross-referencing, and a detailed index that enables the reader to follow a specific line of inquiry along various threads from multiple starting points. Each essay has numerous suggestions for further reading, all of which favor literature that is accessible to the general reader, and a bibliographical essay provides a general overview of the scholarship in the field. Lastly, as a contribution to the visual appeal of the Companion, over 100 black-and-white illustrations and an eight-page color section capture the eye and spark the imagination.

PRACTICAL SOLUTIONS FOR HEALTHCARE MANAGEMENT AND POLICY (COLLECTION)

FT Press A brand new collection of state-of-the-art insights into transforming healthcare, from world-renowned experts and practitioners... now in a convenient e-format, at a great price! Making American healthcare work: 3 new eBooks get past ideology to deliver real solutions! Even after Obamacare, America's healthcare

system is unsustainable and headed towards disaster. These three eBooks offer real solutions, not sterile ideology. In *Overhauling America's Healthcare Machine: Stop the Bleeding and Save Trillions*, leading healthcare expert and entrepreneur Douglas A. Perednia identifies the breathtaking complexity and specific inefficiencies that are driving the healthcare system towards collapse, and presents a new solution that protects patient and physician freedom, covers everyone, and won't bankrupt America. Perednia shows how to design a far simpler system: one that delivers care to everyone by drawing on the best of both market efficiency and public "universality" — and is backed with detailed logic and objective calculations. Next, in *Improving Healthcare Quality and Cost with Six Sigma*, four leading experts introduce Six Sigma from the standpoint of the healthcare professional, showing exactly how to implement it successfully in real-world environments. The first 100% hands-on, start-to-finish blueprint for succeeding with Six Sigma in healthcare, this book covers every facet of Six Sigma in healthcare, demonstrating its use through examples and case studies from every area of the hospital: clinical, radiology, surgery, ICU, cardiovascular, laboratories, emergency, trauma, administrative services, staffing, billing, cafeteria, even central supply. Finally, in *Reengineering Healthcare: A Manifesto for Radically Rethinking Healthcare Delivery* Jim Champy ("Reengineering the Corporation") and Dr. Harry Greenspun show how reengineering methodologies can deliver breakthrough performance and efficiency improvements both within individual healthcare organizations and throughout the entire system, eliminating much of the 40%+ of U.S. healthcare costs now dedicated to administration. They demonstrate how reengineering can refocus investments on aligning quality and providing accessible care for millions more people. From world-renowned healthcare management experts Dr. Doug Perednia, Praveen Gupta, Brett E. Trusko, Carolyn Pexton, H. James Harrington, Jim Champy, and Harry Greenspun, M.D.

NOTES ON THE CHEMICAL LECTURES IN THE MEDICAL DEPARTMENT OF THE UNIVERSITY OF PENNSYLVANIA, FOR FIRST-YEAR STUDENTS

MATRIX OPERATIONS FOR ENGINEERS AND SCIENTISTS

AN ESSENTIAL GUIDE IN LINEAR ALGEBRA

Springer Science & Business Media Engineers and scientists need to have an introduction to the basics of linear algebra in a context they understand. Computer algebra systems make the manipulation of matrices and the determination of their properties a simple matter, and in practical applications such software is often essential. However, using this tool when learning about matrices, without first gaining a proper understanding of the underlying theory, limits the ability to use matrices and to apply them to new problems. This book explains matrices in the detail required by engineering or science students, and it discusses linear systems of ordinary differential equations. These students require a straightforward introduction to linear algebra illustrated by applications to which they can relate. It caters to the needs of undergraduate engineers in all disciplines, and provides considerable detail where it is likely to be helpful. According to the author the best way to understand

the theory of matrices is by working simple exercises designed to emphasize the theory, that at the same time avoid distractions caused by unnecessary numerical calculations. Hence, examples and exercises in this book have been constructed in such a way that wherever calculations are necessary they are straightforward. For example, when a characteristic equation occurs, its roots (the eigenvalues of a matrix) can be found by inspection. The author of this book is Alan Jeffrey, Emeritus Professor of mathematics at the University of Newcastle upon Tyne. He has given courses on engineering mathematics at UK and US Universities.

THE AGEING OF MATERIALS AND STRUCTURES

TOWARDS SCIENTIFIC SOLUTIONS FOR THE AGEING OF OUR ASSETS

Springer This work is an overview of the state of art on Ageing of Materials and structures in the world. Ageing of materials is a natural phenomenon. Each material we use will age. This ageing will influence the performance of the object where the materials is used. Furthermore, the ageing will be affected by the surroundings in which the object is placed. The main focus of the book is on materials used in infrastructure, energy, buildings and industry. The book in effect establishes the definition of ageing and its main research topics that are relevant for society.

FORENSIC SCIENCE

AN ILLUSTRATED DICTIONARY

CRC Press Investigators, prosecutors, defense attorneys, professionals within the field of law enforcement, and other criminal justice personnel need to understand forensic terms when communicating with forensic scientists or interpreting forensic lab results. Forensic Science-An Illustrated Dictionary introduces commonly-used forensic terms, many of