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Science, and Mathematics will
learn by doing. Written as a
tutorial on how to think about,
organize, and implement
programs in scientific
computing, this book achieves
its goal through an eclectic and
wide-ranging collection of
projects. Each project presents
a problem and an algorithm for
solving it. The reader is guided
through implementing the
algorithm in C and compiling
and testing the results. It is not

necessary to carry out the
projects in sequential order.
The projects?contain suggested
algorithms and partially
completed programs for
implementing them to enable
the reader to exercise and
develop skills in scientific
computing;?require only a
working knowledge of
undergraduate multivariable
calculus, differential equations,
and linear algebra; and?are
written in platform-
independent standard C, and
the Unix command-line is used
to illustrate compilation and
execution. The primary
audience of this book is
graduate students in
mathematics, engineering, and
the sciences. The book will also

be of interest to advanced undergraduates and working professionals who wish to exercise and hone their skills in programming mathematical algorithms in C. A working knowledge of the C programming language is assumed. Originally published in 1960, this book looks at the physical principles behind the use of X-rays for microscopic investigation. Cosslett and Nixon review a variety of techniques used in X-ray microscopy, as well as specimen preparation methods. Many plates of various X-rayed materials are also included. Since their discovery in 1895, the detection of X-rays has had a strong impact on and various

applications in several fields of science and human life. Impressive efforts have been made to develop new types of detectors and new techniques, aiming to obtain higher precision both in terms of energy and position. Depending on the applications, solid state detectors, microcalorimeters, and various types of spectrometers currently serve as the best options for spectroscopic and imaging detectors. Recent advancements in micron and meV precision have opened the door for groundbreaking applications in fundamental physics, medical science, astrophysics, cultural heritage, and several other fields. The

aim of this Special Issue is to compile an overview, from different communities and research fields, of the most recent developments in X-ray detection and their possible impacts in various sectors, such as in exotic atom measurements, quantum physics studies, XRF, XES, EXAFS, plasma emission spectroscopy, monochromators, synchrotron radiation, telescopes, and space engineering. All the papers included in this Special Issue contribute to emphasizing the importance of X-ray detection in a very broad range of physics topics; most of these topics are covered by the published works, and several

others are mentioned in the paper references, providing an interesting and very useful synopsis, from a variety of different communities and research fields, of the most recent developments in X-ray detection and their impact in fundamental research and societal applications. This text aims to provide students in engineering with a sound presentation of post-calculus mathematics. It features numerous examples, many involving engineering applications, and contains all mathematical techniques for engineering degrees. The book also contains over 5000 exercises, which range from routine practice problems to

more difficult applications. In addition, theoretical discussions illuminate principles, indicate generalizations and establish limits within which a given technique may or may not be safely used. This book demonstrates the wide variety of creative discovery that continues to bring people to computer graphics. It presents simple and efficient methods for performing the operations that are inherently nonrecursive and reduce the number of comparisons with poor predictive behavior. The x-ray is the only invention that became a regular diagnostic tool in hospitals within a week of its first observation by

Roentgen in 1895. Even today, x-rays are a great characterization tool at the hands of scientists working in almost every field, such as medicine, physics, material science, space science, chemistry, archeology, and metallurgy. With vast existing applications of x-rays, it is even more surprising that every day people are finding new applications of x-rays or refining the existing techniques. This book consists of selected chapters on the recent applications of x-ray spectroscopy that are of great interest to the scientists and engineers working in the fields of material science, physics, chemistry, astrophysics,

astrochemistry, instrumentation, and techniques of x-ray based characterization. The chapters have been grouped into two major sections based upon the techniques and applications. The book covers some basic principles of satellite x-rays as characterization tools for chemical properties and the physics of detectors and x-ray spectrometer. The techniques like EDXRF, WDXRF, EPMA, satellites, micro-beam analysis, particle induced XRF, and matrix effects are discussed. The characterization of thin films and ceramic materials using x-rays is also covered. This textbook presents theory and practice in the context of

automatic control education. It presents the relevant theory in the first eight chapters, applying them later on to the control of several real plants. Each plant is studied following a uniform procedure: a) the plant's function is described, b) a mathematical model is obtained, c) plant construction is explained in such a way that the reader can build his or her own plant to conduct experiments, d) experiments are conducted to determine the plant's parameters, e) a controller is designed using the theory discussed in the first eight chapters, f) practical controller implementation is performed in such a way that the reader can build the

controller in practice, and g) the experimental results are presented. Moreover, the book provides a wealth of exercises and appendices reviewing the foundations of several concepts and techniques in automatic control. The control system construction proposed is based on inexpensive, easy-to-use hardware. An explicit procedure for obtaining formulas for the oscillation condition and the oscillation frequency of electronic oscillator circuits is demonstrated as well. Longevity is a fable disguised as a medical thriller that ponders the justification for extending human life by thirty years. The tone, however, is

light-hearted, even though murder, mayhem, misdirection, and decapitation inhabit Longevity's pages. The author tosses his main characters into deep holes and finds imaginative ways to extricate them. Lucy Mendoza leads the Longevity project, a medical research team tasked with testing an enzyme that seems to help healthy cells live longer. The trials to extend human life are promising, and others take notice. For several reasons, the federal government, a major pharmaceutical company, and a billionaire investor want the project to fail. To obtain that objective, they have no qualms about eliminating the leader,

Lucy. Grant Duran, who left her at the altar, arrives. He's a former Marine special ops officer who's lost a hand and is now a molecular biologist. He thwarts the first attempt on Lucy's life, but as dead bodies accumulate and Lucy and Grant struggle to save themselves, they begin to wonder whether the Longevity project should survive. A collection of over 250 multiple-choice problems to challenge and delight everyone from school students to professional mathematicians. Includes entries for maps and atlases. This concise guide covers the fundamental aspects of the numerical analysis, basing upon it the construction of its

routines for solving nonlinear equations, linear and nonlinear systems of equations, and eigenvalue problems. Focusing on software development, this book emphasizes software tools, OOP techniques for handling vectors, polynomials, and matrices. Using actual examples to demonstrate reusable tools, the book enables readers to solve broad classes of software development and programming challenges. It adopts a balanced approach between OOP techniques and quick and dirty number crunching, and emphasizes the use of OOP features in implementing vector, polynomial and matrix algebra. As a practical

reference, it will help developers and consultants setting up applications programs for electrical, electronic engineering and physical sciences who need to develop clean, efficient C++ programs in minimal time. Presents certain key aspects of inelastic solid mechanics centered around viscoelasticity, creep, viscoplasticity, and plasticity. It is divided into three parts consisting of the fundamentals of elasticity, useful constitutive laws, and applications to simple structural members, providing extended treatment of basic problems in static structural mechanics, including elastic and inelastic effects. It contains

worked-out examples and end-of-chapter problems. The widely syndicated political columnist addresses both professionals and laymen in this guide to writing well which highlights techniques and examples of good writing and includes a section of Kilpatrick's personal judgement calls on word usage Prof. Newman is considered one of the great chemical engineers of his time. His reputation derives from his mastery of all phases of the subject matter, his clarity of thought, and his ability to reduce complex problems to their essential core elements. He is a member of the National Academy of Engineering, Washington, DC,

USA, and has won numerous national awards including every award offered by the Electrochemical Society, USA. His motto, as known by his colleagues, is "do it right the first time." He has been teaching undergraduate and graduate core subject courses at the University of California, Berkeley (UC Berkeley), USA, since joining the faculty in 1966. His method is to write out, in long form, everything he expects to convey to his class on a subject on any given day. He has maintained and updated his lecture notes from notepad to computer throughout his career. This book is an exact reproduction of those notes. This book shows a clean and

concise way on how to use different analytical techniques to solve equations of multiple forms that one is likely to encounter in most engineering fields, especially chemical engineering. It provides the framework for formulating and solving problems in mass transport, fluid dynamics, reaction kinetics, and thermodynamics through ordinary and partial differential equations. It includes topics such as Laplace transforms, Legendre's equation, vector calculus, Fourier transforms, similarity transforms, coordinate transforms, conformal mapping, variational calculus, superposition integrals, and hyperbolic

equations. The simplicity of the presentation instils confidence in the readers that they can solve any problem they come across either analytically or computationally. The book is intended to serve as a textbook for undergraduate and honors students. It will be useful to the engineering and management students, and other applied areas. It will also be helpful in preparing for competitive examinations like IAS, IES, NET, PCS, and other higher education exams. Key Features: Basic concepts presented in an easy to understand style, Notes and remarks given at appropriate places, clean and clear figures given for better understanding,

includes a large number of solved examples, Exercise questions at the end of each chapter, Presentation of the subject in a natural way. Established in 1911, The Rotarian is the official magazine of Rotary International and is circulated worldwide. Each issue contains feature articles, columns, and departments about, or of interest to, Rotarians. Seventeen Nobel Prize winners and 19 Pulitzer Prize winners - from Mahatma Ghandi to Kurt Vonnegut Jr. - have written for the magazine. This popular question-and-answer book has been revised and updated to include the newest stars, latest songs, and most current

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