

EASY SOLUTIONS PRESENTS EASY INTRODUCTION TO UML: INTRODUCTION TO UML

Vowing at an early age “to be a poet or nothing at all,” Hermann Hesse rebelled against formal education, focusing on a rigorous program of independent study that included literature, philosophy, art, and history. One result of these efforts was a series of novels that became counterculture bibles that remain widely influential today. Another was a body of evocative spiritual poetry. Published for the first time in English, these vivid, probing short works reflect deeply on the challenges of life and provide a spiritual solace that transcends specific denominational hymns, prayers, and rituals. The Seasons of the Soul offers valuable guidance in poetic form for a more meaningful life, seeking a sense of homecoming in nature, in each stage of life, in a renewed relationship with the divine. Extensive quotations from his prose introduce each theme addressed in the book: love, imagination, nature, the divine, and the passage of time. A foreword by Andrew Harvey reintroduces us to a figure about whom some may have believed everything had already been said. Thoughtful commentary throughout from translator Ludwig Max Fischer helps readers understand the poems within the context of Hesse’s life. This book constitutes the joint refereed proceedings of six international workshops held as part of OTM 2003 in Catania, Sicily, Italy, in November 2003. The 80 revised full workshop papers presented together with various abstracts and summaries were carefully reviewed and selected from a total of 170 submissions. In accordance with the workshops, the papers are organized in topical main sections on industrial issues, human computer interface for the semantic Web and Web applications, Java technologies for real-time and embedded systems, regulatory ontologies and the modelling of complaint regulations, metadata for security, and reliable and secure middleware.

Introduction to Simple Shock Waves in AirWith Numerical Solutions Using Artificial ViscositySpringer Nature
Handbook of Microemulsion Science and Technology

Self-Study Grammar Reference and Practice
An Introduction to Dynamic Macroeconomic Models
Mechanical Engineering News
The Handbook of Groundwater Engineering

A complete treatment of the theory and practice of groundwater engineering, The Handbook of Groundwater Engineering, Second Edition provides a current and detailed review of how to model the flow of water and the transport of contaminants both in the unsaturated and saturated zones, covers the production of groundwater and the remediation of contaminated groundwater.

Inverse Problems in Scattering exposes some of the mathematics which has been developed in attempts to solve the one-dimensional inverse scattering problem. Layered media are treated in Chapters 1–6 and quantum mechanical models in Chapters 7–10. Thus, Chapters 2 and 6 show the connections between matrix theory, Schur’s lemma in complex analysis, the Levinson–Durbin algorithm, filter theory, moment problems and orthogonal polynomials. The chapters devoted to the simplest inverse scattering problems in quantum mechanics show how the Gelfand–Levitan and Marchenko equations arose. The introduction to this problem is an excursion through the inverse problem related to a finite difference version of Schrödinger’s equation. One of the basic problems in inverse quantum scattering is to determine what conditions must be imposed on the scattering data to ensure that they correspond to a regular potential, which involves Lebesgue integrable functions, which are introduced in Chapter 9.

Didactics of Mathematics as a Scientific Discipline describes the state of the art in a new branch of science. Starting from a general perspective on the didactics of mathematics, the 30 original contributions to the book, drawn from 10 different countries, go on to identify certain subdisciplines and suggest an overall structure or topology’ of the field. The book is divided into eight sections: (1) Preparing Mathematics for Students; (2) Teacher Education and Research on Teaching; (3) Interaction in the Classroom; (4) Technology and Mathematics Education; (5) Psychology of Mathematical Thinking; (6) Differential Didactics; (7) History and Epistemology of Mathematics and Mathematics Education; (8) Cultural Framing of Teaching and Learning Mathematics. Didactics of Mathematics as a Scientific Discipline is required reading for all researchers into the didactics of mathematics, and contains surveys and a variety of stimulating reflections which make it extremely useful for mathematics educators and teacher trainers interested in the theory of their practice. Future and practising teachers of mathematics will find much to interest them in relation to their daily work, especially as it relates to the teaching of different age groups and ability ranges. The book is also recommended to researchers in neighbouring disciplines, such as mathematics itself, general education, educational psychology and cognitive science.

Tap Into Your Full Health Potential with the Science-Backed Power of Herbs

The Cellular Wellness Solution

The Practical Magazine

Medical Record

The Electrodeposition Behavior of a Simple Ion

Now in dynamic full color, ENGINEERING FUNDAMENTALS: AN INTRODUCTION TO ENGINEERING, 5e helps students develop the strong problem-solving skills and solid foundation in fundamental principles they will need to become analytical, detail-oriented, and creative engineers. The book opens with an overview of what engineers do, an inside glimpse of the various areas of specialization, and a straightforward look at what it takes to succeed. It then covers the basic physical concepts and laws that students will encounter on the job. Professional Profiles throughout fundamental principles and applying them to professional engineering. Using a flexible, modular format, the book demonstrates how engineers apply physical and chemical laws and principles, as well as mathematics, to design, test, and supervise the production of millions of parts, products, and services that people use every day. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

This book includes a selection of papers from the 2018 World Conference on Information Systems and Technologies (WorldCIST'18), held in Naples, Italy on March27-29, 2018. WorldCIST is a global forum for researchers and practitioners to present and discuss recent results and innovations, current trends, professional experiences and the challenges of modern information systems and technologies research together with their technological development and applications. The main topics covered are: A) Information and Knowledge Management; B) Organization Applications and Tools; E) Multimedia Systems and Applications; F) Computer Networks, Mobility and Pervasive Systems; G) Intelligent and Decision Support Systems; H) Big Data Analytics and Applications; I) Human-Computer Interaction; J) Ethics, Computers & Security; K) Health Informatics; L) Information Technologies in Education; M) Information Technologies in Radiocommunications; N) Technologies for Biomedical Applications.

Scientific computing is the study of how to use computers effectively to solve problems that arise from the mathematical modeling of phenomena in science and engineering. It is based on mathematics, numerical and symbolic/algebraic computations and visualization. This book serves as an introduction to both the theory and practice of scientific computing, with each chapter presenting the basic algorithms that serve as the workhorses of many scientific codes: we explain both the theory behind these algorithms and how they must be implemented in order to be used. It is often used to derive numerical algorithms, whereas Matlab is used to implement them. The theory is developed in such a way that students can learn by themselves as they work through the text. Each chapter contains numerous examples and problems to help readers understand the material ‘hands-on’.

With Numerical Solutions Using Artificial Viscosity

Multiphysics and Multiscale Modeling

The Seasons of the Soul

Current Scientific and Industrial Reality

Thermal Spray 2007: Global Coating Solutions: Proceedings of the 2007 International Thermal Spray Conference

Didactics of Mathematics as a Scientific Discipline

This book shows professionals how to communicate effectively about technology in business and industry.

Many textbooks on differential equations are written to be interesting to the teacher rather than the student. Introduction to Differential Equations with Dynamical Systems is directed toward students. This concise and up-to-date textbook addresses the challenges that undergraduate mathematics, engineering, and science students experience during a first course on differential equations. And, while covering all the standard parts of the subject, the book emphasizes linear constant coefficient equations and applications, including the topics essential to engineering students. Stephen Campbell and Richard Haberman—using carefully worded derivations, elementary explanations, and examples, exercises, and figures rather than theorems and proofs—have written a book that makes learning and teaching differential equations easier and more relevant. The book also presents elementary dynamical systems in a unique and flexible way that is suitable for all courses, regardless of length.

Demonstrating methods for overcoming stability issues in paints, wax dispensers, cosmetics, food products, and other industrial applications, this reference probes theoretical and practical issues surrounding microemulsion science and technology. Featuring the work of 51 international experts and containing almost 1000 instructive tables, equations, and illustrations, this book reviews the performance of, and prospects for, experimental methods such as X-ray diffraction, transmission electron microscopy (TEM), light scattering, small angle neutron scattering, viscosimetry, and nuclear magnetic resonance (NMR) to characterize various aspects of the dispersed phase of microemulsions.

The Poetic Guidance and Spiritual Wisdom of Herman Hesse

Cambridge Grammar for PET Book with Answers and Audio CD

Reference and Information Services

Surgery

OTM Confederated International Workshops, HCI-SWWA, IPW, JTRES, WORM, WMS, and WRSM 2003, Catania, Sicily, Italy, November 3-7, 2003, Proceedings

Advances in Intelligent Information Systems

"This text book is designed for a one-year course in probability and stochastic processes with applications, especially for students who wish to specialize in probabilistic modeling. This book bridges the gap between elementary texts and advanced texts in probability and is easily accessible for students with diverse backgrounds and majoring in engineering, applied sciences, business and finance, statistics, mathematics, and operations research. The text contains many examples and exercises which have been tested in classrooms and are chosen from diverse areas such as queuing models, reliability and finance. Chapter coverage includes: basic concepts; random variables and their distributions; discrete distributions; continuous distributions; random vectors; multivariate normal distributions; conditional expectation; limit theorems; stochastic processes; queuing models; stochastic calculus; and mathematical finance"--

This volume is a selection of invaluable papers by P-G de Gennes — 1991 Nobel Prize winner in Physics — which have had a long-lasting impact on our understanding of condensed matter. Important ideas on polymers, liquid crystals and interfaces are described. The author has added some afterthoughts to the main papers (explaining their successes or weaknesses), and some current views on each special problem. The text is simple and easy to read. Contents:Part I: Solid StatePart II: Liquid CrystalsPart III: PolymersPart IV: InterfacesPart V: Wetting and AdhesionPart VI: Chirality Readership: Physicists, chemists, hydrodynamicists and materials scientists. Keywords:Polymers;Liquid Crystals;Interfaces;Chirality;WettingReviews:Review of the first edition: "This book collects a series of articles in which problems which had always been thought quite intractable are shown to be solved by simple, but clear thinking. Although the phrase 'simple views' is justified by the clarity of de Gennes' exposition, the problems had been unresolved for decades and it is a tribute to de Gennes' intuitive skill that he has been able to solve so many problems which are not only deep basic science, but also central in modern technology."Sam Edwards Univ. Cambridge, UK, 1992 Reviews of the First Edition: "For amateurs and connoisseurs — interested in physics, chemistry or biology — Pierre-Gilles de Gennes has opened his gentry-style cabinet de curiosités. Miscellaneous products of his inventive industry, including the famous and the unfamiliar, are brought together in this self-selected collection, accompanied with recent hindsightful remarks of the Nobel laureate."Gérad Toulouse Ecole Normale Supérieure, France "This volume of collected works of Pierre-Gilles de Gennes will be a valuable and stimulating source for many years to come for younger readers and for beginners in the subfields of condensed matter covered in this volume, as well as a useful and compact reference book for all workers in the field."Helmut R Brand Advanced Materials "This book surely satisfies the requirements of those interested in this field of physics. On the whole I think that this book can give, especially to a young reader, a certain feeling about the enthusiasm and novelty of condensed matter research during the last three decades."Il Nuovo Saggiatore

Intelligent Information Systems (IIS) can be defined as the next generation of Information Systems (IS) developed as a result of integration of AI and database (DB) technologies. IIS embody knowledge that allows them to exhibit intelligent behavior, allows them to cooperate with users and other systems in problem solving, discovery, retrieval, and manipulation of data and knowledge. For any IIS to serve its purpose, the information must be available when it is needed. This means that the computing systems used to store data and process the information, and the security controls used to protect it must be functioning correctly. This book covers some of the above topics and it is divided into four sections: Classification, Approximation and Data Security, Knowledge Management, and Application of IIS to medical and music domains.

On The Move to Meaningful Internet Systems 2003: OTM 2003 Workshops

The Chemistry of Metal Alkoxides

Surgery, Its Principles and Practice

Engineering Fundamentals: An Introduction to Engineering

Introduction to Differential Equations with Dynamical Systems

Introduction to Recursive Programming

Grammar reference and practice for the Cambridge PET exam.

Recursion is one of the most fundamental concepts in computer science and a key programming technique that allows computations to be carried out repeatedly. Despite the importance of recursion for algorithm design, most programming books do not cover the topic in detail, despite the fact that numerous computer programming professors and researchers in the field of computer science education agree that recursion is difficult for novice students. Introduction to Recursive Programming provides a detailed and comprehensive introduction to recursion. This text will serve as a useful guide for anyone who wants to learn how to think and program recursively, by analyzing a wide variety of computational problems of diverse difficulty. It contains specific chapters on the most common types of recursion (linear, tail, and multiple), as well as on algorithm design paradigms in which recursion is prevalent (divide and conquer, and backtracking). Therefore, it can be used in introductory programming courses, and in more advanced classes on algorithm design. The book also covers lower-level topics related to iteration and program execution, and includes a rich chapter on the theoretical analysis of the computational cost of recursive programs, offering readers the possibility to learn some basic mathematics along the way. It also incorporates several elements aimed at helping students master the material. First, it contains a larger collection of simple problems in order to provide a solid foundation of the core concepts, before diving into more complex material. In addition, one of the book's main assets is the use of a step-by-step methodology, together with specially designed diagrams, for guiding and illustrating the process of developing recursive algorithms. Furthermore, the book covers combinatorial problems and mutual recursion. These topics can broaden students' understanding of recursion by forcing them to apply the learned concepts differently, or in a more sophisticated manner. The code examples have been written in Python 3, but should be straightforward to understand for students with experience in other programming languages. Finally, worked out solutions to over 120 end-of-chapter exercises are available for instructors.

This book constitutes the refereed proceedings of the 9th Pacific Rim International Workshop on Multi-Agents, PRIMA 2006, held in Guilin, China, in August 2006. The book presents 39 revised full papers and 57 revised short papers together with 4 invited talks, addressing subjects from theoretical and methodological issues to applications. Topics include agent models, agent architectures, agent-oriented software engineering, semantic Web service, collaboration, coordination and negotiation, and more.

Agent Computing and Multi-Agent Systems

The Lancet

Scientific Computing - An Introduction using Maple and MATLAB

Volume 2

Electrochemical and Metallurgical Industry

Sketches of English Literature, from the fourteenth to the present century

This book is devoted to general questions of the chemistry of metal alkoxides - including physiochemical properties, structure, specific features of single groups of alkoxides, theoretical principles of their use, and major applications of this method in the preparation of functional materials.

Written to appeal to a wide field of engineers and scientists who work on multiscale and multiphysics analysis, Multiphysics and Multiscale Modeling: Techniques and Applications is dedicated to the many computational techniques and methods used to develop man-made systems as well as understand living systems that exist in nature. Presenting a body

The ABCs of RBCs is the first book to provide a basic introduction to Real Business Cycle (RBC) and New-Keynesian models. These models argue that random shocks—new inventions, droughts, and wars, in the case of pure RBC models, and monetary and fiscal policy and international investor risk aversion, in more open interpretations—can trigger booms and recessions and can account for much of observed output volatility. George McCandless works through a sequence of these Real Business Cycle and New-Keynesian dynamic stochastic general equilibrium models in fine detail, showing how to solve them, and how to add important extensions to the basic model, such as money, price and wage rigidities, financial markets, and an open economy. The impulse response functions of each new model show how the added feature changes the dynamics. The ABCs of RBCs is designed to teach the economic practitioner or student how to build simple RBC models. Matlab code for solving many of the models is provided, and careful readers should be able to construct, solve, and use their own models. In the tradition of the “freshwater” economic schools of Chicago and Minnesota, McCandless enhances the methods and sophistication of current macroeconomic modeling.

Surgery, Its Principles and Practice: Intestines; rectum; herina; genito-urinary organs; eye; ear; military, naval, tropical surgery

Fundamentals and New Directions in Sample Preparation

Simple Views on Condensed Matter

Inverse Problems in Scattering

Introduction to Simple Shock Waves in Air

A Treatise on Diagnostic Methods of Examination

This book provides an elementary introduction to one-dimensional fluid flow problems involving shock waves in air. The differential equations of fluid flow are approximated by finite difference equations and these in turn are numerically integrated in a stepwise manner, with artificial viscosity introduced into the numerical calculations in order to deal with shocks. This treatment of the subject is focused on the finite-difference approach to solve the coupled differential equations of fluid flow and presents the results arising from the numerical solution using Matlab programming. Both plane and spherical shock waves are discussed with particular emphasis on very strong explosive shocks in air. This expanded second edition features substantial new material on sound wave parameters, Riemann’s method for numerical integration of the equations of motion, approximate analytical expressions for weak shock waves, short duration piston motion, numerical results for shock wave interactions, and new appendices on the piston withdrawal problem and numerical results for a closed shock tube. This text will appeal to students, researchers, and professionals in shock wave research and related fields. Students in particular will appreciate the benefits of numerical methods in fluid mechanics and the level of presentation.

Reflecting the dramatic changes shaped by rapidly developing technologies over the past six years, this new fourth edition of “Reference and Information Services” takes the introduction to reference sources and services significantly beyond the content of the first three editions. In Part I, Concepts and Processes, chapters have been revised and updated to reflect new ideas and methods in the provision of reference service in an era when many users have access to the Web. In Part II, “Information Sources and Their Use,” discussion of each source type has been updated to encompass key resources in print and on the Web, where an increasing number of freely available sources join those purchased or licensed by libraries. A number of new authors are contributors to this new edition, bringing to their chapters their experience as teachers of reference and as practitioners in different types of libraries. Discussions of services in Part I integrate digital reference as appropriate to each topic, such as how to conduct a reference interview online using instant messaging. Boxes interspersed in the text are used to present scenarios for discussion, to highlight key concepts, or to present excerpts from important documents. Discussions of sources in Part II place more emphasis on designing effective search strategies using both print and digital resources. The chapter on selection and evaluation of sources addresses the changing nature of reference collections and how to evaluate new types of sources. Each chapter concludes with an updated list of additional readings to guide further study. A new companion website will provide links to Web-accessible readings and resources as well as additional scenarios for discussion and example search strategies to supplement those presented in the text.

Are you searching for a natural wellness plan that is grounded in science? The Cellular Wellness Solution delivers a fresh take on the critical role our cells play in supporting optimal health. A classically-trained physician, Bill Rawls, MD, departs from the medical norm to shine a light on the unrecognized potential of herbs to energize your health through cellular healing and regeneration. Packed with fascinating science and actionable recommendations, The Cellular Wellness Solution will become your go-to resource for transforming your health from the inside out. ADVANCE PRAISE “An eye-opening and empowering book the world needs right now: The Cellular Wellness Solution will fundamentally change how you think about herbs and the powerful role they play in cultivating wellness at the cellular level. Dr. Rawls distills decades of research into a blueprint of proven, cost-effective natural solutions that can dramatically enhance your overall vitality and resilience.” — MARK HYMAN, MD, Fourteen-time #1 New York Times Bestselling Author

“The Cellular Wellness Solution is poised to ignite a much-needed and insightful new dialogue surrounding the healing power of herbs.” — DR. JOSH AXE, DNM, DC, CNS, author of Ancient Remedies for Modern Life “Dr. Bill Rawls has integrated multiple fields of scientific research into an accessible guide—with a focus we have not encountered elsewhere. We are confident that you will find The Cellular Wellness Solution a most valuable addition to your health library.” — JOE & TERRY GRAEDON, Hosts of The People’s Pharmacy on NPR “Caring for your cells is essential for preserving and maintaining health, and The Cellular Wellness Solution offers a unique and comprehensive approach to keeping our cells in optimal shape. Dr. Rawls’ book arrives at the exact right time, as the groundswell of scientific knowledge is all pointing in one direction: to take control of our health, we need to maintain the health of our cells for as long as we can, and using multiple methods of doing so is essential.” — DR. WILL COLE, IFMCP, DNM, DC, author of Ketotarian, The Inflammation Spectrum, and Intuitive Fasting “With compassion and authority, Dr. Bill Rawls delivers a bold look at the modern medical system— where it shines, but also where it falls short—and why we can’t rely on it to truly make us well. In this comprehensive guide, Dr. Rawls teaches us how to be smarter about our use of antibiotics and pharmaceuticals, while expanding our wellness toolbox to include herbs and other non-toxic solutions. If you are ready to change your life and get to the root of chronic health problems, this book will reveal a doorway to a new path forward.” — ADRIENNE NOLAN-SMITH, patient advocate and founder of WellBe “The Cellular Wellness Solution lays out, with clarity and persuasive power, the health benefits of herbs, herbal supplements, and the “powerhouse” properties of phytochemicals that, due to contemporary food processing that emphasizes the production of calories over all else, tend to be lacking in American diets. The book finds [Dr. Rawls] guiding readers through his discovery, with a doctor’s eye for the science—and the practical results. Rawls proves an appealing guide, laying out the facts with clarity and, for all this lengthy guide’s thoroughness, a welcome sense of the bottom line: what readers want to know to improve their own health.” — BOOKLIFE REVIEWS by Publishers Weekly

Proceedings of the TRIZ-Future Conference 2007 ; Frankfurt, Germany, November, 6th - 8th, 2007

The Electrical Review

Introduction to Probability and Stochastic Processes with Applications

The Academy

An Introduction

Its Principles and Practice

This title is the first comprehensive book on sampling and modern sample preparation techniques and has several main objectives: to facilitate recognition of sample preparation as both an integral part of the analytical process; to present a fundamental basis and unified theoretical approach for the professional development of sample preparation; to emphasize new developments in sample preparation technology; and to highlight the future impact of sample preparation on new directions in analytical science, particularly automation, miniaturization and field implementation. Untill recently, there has been relatively little scientific interest in sampling and sample preparation, however this situation is presently changing as sampling and sample preparation become integral parts of the analytical process with their own unique challenges and research opportunities. Sampling and Sample Preparation for Field and Laboratory is an essential resource for all analytical chemists, and in particular those involved in method development. Not only does it cover the fundamental aspects of extraction, it also covers applications in various matrices and includes sampling strategies and equipment and how these can be integrated into the analytical process for maximum efficiency.

9th Pacific Rim International Workshop on Multi-Agents, PRIMA 2006, Guilin, China, August 7-8, 2006, Proceedings

Trends and Advances in Information Systems and Technologies

Techniques and Applications

How to Write and Present Technical Information

Sampling and Sample Preparation in Field and Laboratory

The ABCs of RBCs