

M250 Object Oriented Java Programming Open University

This beautifully produced series provides a perfect introduction to the world's six main faiths through their sacred texts, showing how they were compiled and/or written, and how people have used them as a guide through their lives.

The Urban Risk Assessment (URA) is a framework for assessing disaster and climate risk in cities based on three pillars: a hazard impact assessment, an institutional assessment, and a socioeconomic assessment. The URA can be applied flexibly based on a city's available financial resources, available data, and institutional capacity.

The fourth edition of Java Software Structures embraces the enhancements of the latest version of Java, where all structures and collections are based on generics. The framework of the text walks the reader through three main areas: conceptualization, explanation, and implementation, allowing for a consistent and coherent introduction to data structures. Readers will learn how to develop high-quality software systems using well-designed collections and algorithms.

Proceedings from the 2013 LTEC conference in Kaohsiung, Taiwan. The papers examine diverse aspects of Learning Technology for Education in Cloud environments, including social, technical and infrastructure implications. Also addressed is the question of how cloud computing can be used to design applications to support real time on demand learning using technologies. The workshop proceedings provide opportunities for delegates to discuss the latest research in TEL (Technology Enhanced Learning) and its impacts for learners and institutions, using cloud technologies.

Mathematics, Statistics, and Graphics

An Introduction to Practical Formal Methods Using Temporal Logic

Network Security with OpenSSL

High-Throughput Phenotyping in Plants

A Practical Introduction Using BlueJ

An Approach for Understanding Disaster and Climate Risk in Cities

Objects First with Java

Enzymes are giant macromolecules which catalyse biochemical reactions. They are remarkable in many ways. Their three-dimensional structures are highly complex, yet they are formed by spontaneous folding of a linear polypeptide chain. Their catalytic properties are far more impressive than synthetic catalysts which operate under more extreme conditions. Each enzyme catalyses a single chemical reaction on a particular chemical substrate with very high enantioselectivity and enantiospecificity at rates which approach "catalytic perfection". Living cells are capable of carrying out a huge repertoire of enzyme-catalysed chemical reactions, some of which have little or no precedent in organic chemistry. The popular textbook Introduction to Enzyme and Coenzyme Chemistry has been thoroughly updated to include information on the most recent advances in our understanding of enzyme action, with additional recent examples from the literature used to illustrate key points. A major new feature is the inclusion of two-colour figures, and the addition of over 40 new figures of the active sites of enzymes discussed in the text, in order to illustrate the interplay between enzyme structure and function. This new edition provides a concise but comprehensive account from the perspective of organic chemistry, what enzymes are, how they work, and how they catalyse many of the major classes of enzymatic reactions, and will continue to prove invaluable to both undergraduate and postgraduate students of organic, bio-organic and medicinal chemistry, chemical biology, biochemistry and biotechnology.

The 2nd International Workshop on Learning Technology for Education in CloudSpringer Science & Business Media

With the surge of popularity of PHP 5, object-oriented programming is now an important consideration for PHP developers. This version-neutral book is a gentle introduction to object-oriented programming (OOP) that won't overburden you with complex theory. It teaches you the essential basics of OOP that you'll need to know before moving onto a more advanced level, and includes a series of prepackaged scripts that you can incorporate into your existing sites with the minimum of effort. It shows how object-oriented programming can be used to create reusable and portable code by walking you through a series of simple projects. The projects feature the sorts of things developers run up against every day, and include a validator for filtering user input, a simple Date class that avoids the need to remember all the esoteric format codes in PHP, and an XML generator. Teaches the fundamentals of OOP Simple projects show how OOP concepts work in the real world Prepackaged scripts can easily be added to your own projects

Genetic approaches to understanding plant growth and development have always benefitted from screens that are simple, quantitative and rapid. Visual screens and morphometric analysis have yielded a plethora of interesting mutants and traits that have provided insight into complex regulatory pathways, and yet many genes within any given plant genome remain undefined. The premise underlying High Throughput Phenotyping in Plants: Methods and Protocols is that the higher the resolution of the phenotype analysis the more likely that new genes and complex interactions will be revealed. The methods described in this volume can be generally classified as quantitative profiling of cellular components, ranging from ions to small molecule metabolites and nuclear DNA, or image capture that ranges in resolution from chlorophyll fluorescence from leaves and time-lapse images of seedling shoots and roots to individual plants within a population at a field site. Written in the successful Methods in Molecular Biology™ series format, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible protocols, and notes on troubleshooting and avoiding known pitfalls. Authoritative and easily accessible, High Throughput Phenotyping in Plants: Methods and Protocols serves as an invaluable guide to plant researchers and all scientists who wish to better understand plant growth and development.

High Energy Density Lithium Batteries

A Rigorous and Practical Approach

The Holt Handbook

processing maple syrup products

Rapid Prototyping

Change, Strategy and Projects at Work

Python by Example

Mathematica Navigator gives you a general introduction to Mathematica. The book emphasizes graphics, methods of applied mathematics and statistics, and programming.

Mathematica Navigator can be used both as a tutorial and as a handbook. While no previous experience with Mathematica is required, most chapters also include advanced material, so that the book will be a valuable resource for both beginners and experienced users.

This book summarizes our knowledge of the caves and cave research in Bulgaria. The first Bulgarian caving society was founded as early as 1929, but the first cave animals, fossils and archaeological artefacts in Bulgarian caves had been found and publishe

DISCIPLE IV UNDER THE TREE OF LIFE is the final study in the four-phase DISCIPLE program and is prepared for those who have completed BECOMING DISCIPLES THROUGH BIBLE STUDY. The study concentrates on the Writings (Old Testament books not in the Torah or the Prophets), the Gospel of John, and Revelation. Emphasis on the Psalms as Israel's hymnbook and prayer book leads natural to an emphasis on worship in the study. Present through the entire study is the sense of living toward completion - toward the climax of the message and the promise, extravagantly pictured in Revelation. The image of the tree and the color gold emphasize the prod and promise in the Scriptures for DISCIPLE IV: UNDER THE TREE OF LIFE. The word under in the title is meant to convey invitation, welcome, sheltering, security, and rest - home at last.

Commitment and Time Involved 32 week study Three and one-half to four hours of independent study each week (40 minutes daily for leaders and 30 minutes daily for group members) in preparation for weekly group meetings. Attendance at weekly 2.5 hour meetings. DVD Set Four of the five videos in this set contain video segments of approximately ten minutes each that serve as the starting point for discussion in weekly study sessions. The fifth video is the unique component that guides an interactive worship experience of the book of Revelation. Under the Tree of Life Scriptures lend themselves to videos with spoken word, art, dance, music, and drama. Set decorations differs from segment to segment depending on the related Scripture and its time period. Set decoration for video segments related to the Writings generally has a Persian theme. Set decoration for the New Testament video segments emphasizes the simpler life of New Testament times.

Confusing Textbooks? Missed Lectures? Tough Test Questions? Fortunately for you, there's Schaum's Outlines. More than 40 million students have trusted Schaum's to help them succeed in the classroom and on exams. Schaum's is the key to faster learning and higher grades in every subject. Each Outline presents all the essential course information in an easy-to-follow, topic-by-topic format. You also get hundreds of examples, solved problems, and practice exercises to test your skills. This Schaum's Outline gives you Practice problems with full explanations that reinforce knowledge Coverage of the most up-to-date developments in your course field In-depth review of practices and applications Fully compatible with your classroom text, Schaum's highlights all the important facts you need to know. Use Schaum's to shorten your study time-and get your best test scores! Schaum's Outlines-Problem Solved.

The Ramayana and Hinduism

Software Metrics

India's Space Journey

Principles and Practice

Java Software Structures

Laser-based and Other Technologies

Offering more coverage on the writing process, research, and writing in the disciplines, THE HOLT HANDBOOK is the most comprehensive and accessible handbook on the market.

Provides information about how to present data visually using JavaScript and jQuery, including the core libraries used for data analysis and visualization, charting techniques, customizing maps, and building an interconnected dashboard.

Since the dawn of civilization, mankind has been engaged in the conception and manufacture of discrete products to serve the functional needs of local customers and the tools (technology) needed by other craftsmen. In fact, much of the progress in civilization can be attributed to progress in discrete product manufacture. The functionality of a discrete object depends on two entities: form, and material composition. For instance, the aesthetic appearance of a sculpture depends upon its form whereas its durability depends upon the material composition. An ideal manufacturing process is one that is able to automatically generate any form (freeform) in any material. However, unfortunately, most traditional manufacturing processes are severely constrained on all these counts. There are three basic ways of creating form: conservative, subtractive, and additive. In the first approach, we take a material and apply the needed forces to deform it to the required shape, without either adding or removing material, i. e. , we conserve material. Many industrial processes such as forging, casting, sheet metal forming and extrusion emulate this approach. A problem with many of these approaches is that they focus on form generation without explicitly providing any means for controlling material composition. In fact, even form is not created directly. They merely duplicate the external form embedded in external tooling such as dies and molds and the internal form embedded in cores, etc. Till recently, we have had to resort to the 'subtractive' approach to create the form of the tooling.

Most applications these days are at least somewhat network aware, but how do you protect those applications against common network security threats? Many developers are turning to OpenSSL, an open source version of SSL/TLS, which is the most widely used protocol for secure network communications. The OpenSSL library is seeing widespread adoption for web sites that require cryptographic functions to protect a broad range of sensitive information, such as credit card numbers and other financial transactions. The library is the only free, full-featured SSL implementation for C and C++, and it can be used programmatically or from the command line to secure most TCP-based network protocols. Network Security with OpenSSL enables developers to use this protocol much more effectively. Traditionally, getting something simple done in OpenSSL could easily take weeks. This concise book gives you the guidance you need to avoid pitfalls, while allowing you to take advantage of the library's advanced features. And, instead of bogging you down in the technical details of how SSL works under the hood, this book provides only the information that is necessary to use OpenSSL safely and effectively. In step-by-step fashion, the book details the challenges in securing network communications, and shows you how to use OpenSSL tools to best meet those challenges. As a system or network administrator, you will benefit from the thorough treatment of the OpenSSL command-line interface, as well as from step-by-step directions for obtaining certificates and setting up your own certification authority. As a developer, you will further benefit from the in-depth discussions and examples of how to use OpenSSL in your own programs. Although OpenSSL is written in C, information on how to use OpenSSL with Perl, Python and PHP is also included. OpenSSL may well answer your need to protect sensitive data. If that's the case, Network Security with OpenSSL is the only guide available on the subject.

Bioinformatics and the Cell

Information Origins of the Chemical Bond

Concepts, Techniques, and Code

Learning to Program in 150 Challenges

Inquinamento luminoso e protezione dell'ambiente notturno

Statistical Inference and Probability

Hardware/Software Co-Design

Scalable Vector Graphics -- or SVG -- is the new XML-based graphics standard from the W3C that will enable Web documents to be smaller, faster and more interactive. J. David Eisenberg's insightful book takes you through the ins and outs of SVG, beginning with basics needed to create simple line drawings and then moving through more complicated features like filters, transformations, and integration with Java, Perl, and XSLT. Unlike GIFs, JPEGs or PNGs (which are bitmapped), SVG images are both resolution- and device-independent, so that they can scale up or down to fit proportionally into any size display or any Internet device -- from PDAs to large office monitors and high-resolution printers. Smaller than bitmapped files and faster to download, SVG images can be rendered with different CSS styles for each environment. They work well across a range of available bandwidths. SVG makes it possible for designers to escape the constant need to update graphics by hand or use custom code to generate bitmap images. And while SVG was created with the Web in mind, the language has a variety of other uses. SVG greatly simplifies tasks like: Creating web sites whose graphics reflect the content of the page, changing automatically if the content changes Generating graphs and charts from information stored in a wide variety of sources Exchanging detailed drawings, from architectural plans to CAD layouts to project management diagrams Creating diagrams that users can explore by zooming in and panning around Generating bitmap images for use in older browsers using simple automatable templates Managing graphics that support multiple languages or translations Creating complex animation By focusing sharply on the markup at the foundation of SVG, SVG Essentials gives you a solid base on which to create your own custom tools. Explanations of key technical tools -- like XML, matrix math, and scripting -- are included as appendices, along with a reference to the SVG vocabulary. Whether you're a graphic designer in search of new tools or a programmer dealing with the complex task of creating and managing graphics, SVG Essentials provides you with the means to take advantage of SVG.

The name "temporal logic" may sound complex and daunting; but while they describe potentially complex scenarios, temporal logics are often based on a few simple, and fundamental, concepts - highlighted in this book. An Introduction to Practical Formal Methods Using Temporal Logic provides an introduction to formal methods based on temporal logic, for developing and testing complex computational systems. These methods are supported by many well-developed tools, techniques and results that can be applied to a wide range of systems. Fisher begins with a full introduction to the subject, covering the basics of temporal logic and using a variety of examples, exercises and pointers to more advanced work to help clarify and illustrate the topics discussed. He goes on to describe how this logic can be used to specify a variety of computational systems, looking at issues of linking specifications, concurrency, communication and composition ability. He then analyses temporal specification techniques such as deductive verification, algorithmic verification, and direct execution to develop and verify computational systems. The final chapter on case studies analyses the potential problems that can occur in a range of engineering applications in the areas of robotics, railway signalling, hardware design, ubiquitous computing, intelligent agents, and information security, and explains how temporal logic can improve their accuracy and reliability. Models temporal notions and uses them to analyze computational systems Provides a broad approach to temporal logic across many formal methods - including specification, verification and implementation Introduces and explains freely available tools based on temporal logics and shows how these can be applied Presents exercises and pointers to further study in each chapter, as well as an accompanying website providing links to additional systems based upon temporal logic as well as additional material related to the book.

A collection of progressively more complex Python programming challenges to help students learn to code in a naturally engaging way.

Materials Engineering for High Density Energy Storage provides first-hand knowledge about the design of safe and powerful batteries and the methods and approaches for enhancing the performance of next-generation batteries. The book explores how the innovative approaches currently employed, including thin films, nanoparticles and nanocomposites, are paving new ways to performance improvement. The topic's tremendous application potential will appeal to a broad audience, including materials scientists, physicists, electrochemists, libraries, and graduate students.

Methods and Protocols

A cost analysis

Designing and Using Data Structures

Modern Computational Approaches in Genomics, Proteomics and Transcriptomics

Disciple IV

Mathematical Methods and Fluid Mechanics

The Security Development Lifecycle

Describes how to put software security into practice, covering such topics as risk analysis, coding policies, Agile Methods, cryptographic standards, and threat tree patterns.

Understanding Digital Societies provides a framework for understanding our changing, technologically shaped society and how sociology can help us make sense of it. You will be introduced to core sociological ideas and texts along with exciting global examples that shed light on how we can use sociology to understand the world around us. This innovative, new textbook: Provides unique insights into using theory to help explain the prevalence of digital objects in everyday interactions. Explores crucial relationships between humans, machines and emerging AI technologies. Discusses thought-provoking contemporary issues such as the uses and abuses of technologies in local and global communities. Understanding Digital Societies is a must-read for students of digital sociology, sociology of media, digital media and society, and other related fields.

An application - Inner products - Sturm-Liouville problems - Regular Sturm-Liouville problems - Legendre polynomials.

Presents an introduction to PHP and object-oriented programming, with information on such topics as classes, inheritance, RSS readers, and XML.

Schaum's Outline of Signals and Systems

Materials, Engineering, Applications

Business Data Communications

SVG Essentials

What Am I Taking?

The 2nd International Workshop on Learning Technology for Education in Cloud

Cryptography for Secure Communications

*Change, Strategy and Projects at Work provides a working insight into the nature of change, the formulation of strategy and the implementation of change through projects in the workplace. It is a 'how to' book with real practical application, containing the tools, techniques, advice and guidance you need to analyse organisational context, develop a strategic plan and manage a project. To help you in leading change and creating opportunities for yourself and your organisation, the book takes an integrated approach to managing change, developing strategy and project management, and covers: * How strategic objectives are chosen, promoting awareness of the wider organisational context and the strategic planning process * The knowledge, tools, techniques and confidence needed to act as a change agent * The skills, competencies and other attributes needed to improve your employability The book is ideal as a dip-in guide for professional development, a self-study resource or a textbook for formal courses on change, strategy and project management in a work context. It is used to support the Open University's undergraduate course ICTs, Change and Projects at Work (T226).*

The second edition of Duane Bailey's Java Structures considers the design, implementation, and use of data structures using Java 2. The structure package, a collection of nearly 100 different classes implementing a wide variety of data structures, has been the basis of Java Structures for more than five years. Thousands of faculty, students, researchers, industrial and recreational programmers have investigated this lean and well tested approach to data structure design. In this edition, the text develops a heavily tested package that is independent of but consistent with the Collection package offered by Sun. In many cases, the variety of implementations provides the programmer choices of data structure that are not available with the Collection system. For those curricula that make use of the Collection package, the structure package can be easily integrated into existing applications. All classes are fully documented and make consistent use of pre- and post-conditioning, and include support for assertion testing. The second edition also brings a wealth of new resources, including a large number of new and original

exercises and drill problems. Throughout the text, exercises appear in the running text to direct a deeper consideration of subtle issues by students. Perhaps the most innovative feature (first found in Bailey's Java Elements) is the inclusion of more than a dozen original lab exercises that focus on interesting and often classic problems of computer science. All code for the book's examples, documentation, and the STRUCTURE package is posted on the book's website at www.mhhe.com/javastructures. This book is for those who want to advance themselves in studying Physics in the shortest path from Classical Physics to Quantum Mechanics.

Business Data Communications, 6/e, is ideal for use in Business Data Communications, Data Communications, and introductory Networking for Business courses. Business Data Communications, 6/e, covers the fundamentals of data communications, networking, distributed applications, and network management and security. Stallings presents these concepts in a way that relates specifically to the business environment and the concerns of business management and staff, structuring his text around requirements, ingredients, and applications. While making liberal use of real-world case studies and charts and graphs to provide a business perspective, the book also provides the student with a solid grasp of the technical foundation of business data communications. Throughout the text, references to the interactive, online animations supply a powerful tool in understanding complex protocol mechanisms. The Sixth Edition maintains Stallings' superlative support for either a research projects or modeling projects component in the course. The diverse set of projects and student exercises enables the instructor to use the book as a component in a rich and varied learning experience and to tailor a course plan to meet the specific needs of the instructor and students.

Caves and Speleology in Bulgaria

Data Structures in Java for the Principled Programmer

The Guru Granth Sahib and Sikhism

SDL, a Process for Developing Demonstrably More Secure Software

Object-Oriented PHP

Oxford Handbook of Face Perception

Strategic Management For The Public Services

PART I: FUNDAMENTALS OF MEASUREMENT AND EXPERIMENTATION 1. Measurement: What Is It and Why Do It? 2. The Basics of Measurement 3. A Goal-Based Framework for Software Measurement 4. Empirical Investigation 5. Software Metrics Data Collection 6. Analyzing Software-Measurement Data PART II: SOFTWARE-ENGINEERING MEASUREMENT 7. Measuring Internal Product Attributes: Size 8. Measuring Internal Product Attributes: Structure 9. Measuring Internal Product Attributes 10. Software Reliability: Measurement and 11. Resource Measurement: Productivity, Teams, and Tools 12. Making Process Predictions PART III: MEASUREMENT AND MANAGEMENT 13. Planning a Measurement Program 14. Measurement in Practice 15. Empirical Research in Software Engineering APPENDIXES: A. Solutions to Selected Exercises / B. Metric Tools / C. Acronyms and Glossary / ANNOTATED BIBLIOGRAPHY / INDEX

The Information Theory (IT) is one of the youngest branches of the applied probability theory, in which the probability ideas have been introduced into the field of communication, data processing. It has originated from the needs of practice, to create a theoretical model for the transmission of information, and evolved into an important chapter of the general probability. An understanding of the distribution of information in molecules and its displacements accompanying chemical reactions, which involve the bond-forming and/or bond-breaking processes, is touched on in this book and provides an alternative perspective on molecular electronic structure. An insight into the entropic origins of chemical bonds and their coupling to chemical phenomena is central to many branches of chemistry.

Part of The SAGE Quantitative Research Kit, this concise text breaks down the complex topic of inferential statistics with accessible language and detailed examples. Covering a range of topics, it provides you with the know-how and confidence needed for a successful quantitative research journey.

Biological and biomedical sciences are becoming more interdisciplinary, and scientists of the future need interdisciplinary training instead of the conventional disciplinary training. Judy Eddy (2005) wisely pointed out that sending monolingual diplomats to the United Nations may not enhance international collaborations, combining strictly disciplinary scientists trained in mathematics, computational science or molecular biology will not create a productive interdisciplinary team ready to solve interdisciplinary problems. Molecular biology is an interdisciplinary science back in its heyday, and founders of molecular biology were often interdisciplinary scientists. Indeed, Francis Crick considered himself as "a mixture of crystallographer, biophysicist, biochemist, and geneticist" (Crick, 1965). Because it was too cumbersome to explain to people that he was such a mixture, the term "molecular biologist" came handy. To get the crystallographer, biophysicist, biochemist, and geneticist within himself to collaborate with each other probably worked better than a team with a crystallographer, a biophysicist, and a geneticist who may not even be interested in each other's problems.

Urban Risk Assessments

PHP Object-Oriented Solutions

Java Structures

From Classical to Quantum: (A Self-Teaching Guide)

Introduction to Enzyme and Coenzyme Chemistry

Sturm-Liouville theory. Unit 11

JavaScript and JQuery for Data Analysis and Visualization

This is an accessible introduction to the theory and practice of strategic management in the public sector.

In the past thirty years, face perception has become an area of major interest within psychology, with a rapidly expanding research base. The Oxford Handbook of Face Perception is the most comprehensive and commanding review of the field ever published. It looks at the functional and neural mechanisms underlying the perception, representation, and interpretation of facial characteristics, such as identity, expression, eye gaze, attractiveness, personality, and race. It examines the development of these processes, their neural correlates in both human and non-human primates, congenital and acquired disorders resulting from their breakdown, and the theoretical and computational frameworks for their underlying mechanisms. For anyone looking for the definitive review of this burgeoning field, the Oxford Handbook of Face Perception is the essential book.

Introduction to Hardware-Software Co-Design presents a number of issues of fundamental importance for the design of integrated hardware software products such as embedded, communication, and multimedia systems. This book is a comprehensive introduction to the fundamentals of hardware/software co-design. Co-design is still a new field but one which has substantially matured over the past few years. This book, written by leading international experts, covers all the major topics including: fundamental issues in co-design; hardware/software co-synthesis algorithms; prototyping and emulation; target architectures; compiler techniques; specification and verification; system-level specification. Special chapters describe in detail several leading-edge co-design systems including Cosyma, LYCOS, and Cosmos. Introduction to Hardware-Software Co-Design contains sufficient material for use by teachers and students in an advanced course of hardware/software co-design. It also contains extensive explanation of the fundamental concepts of the subject and the necessary background to bring practitioners up-to-date on this increasingly important topic.

On 21 November 1963, the first rocket took off from Thumba, a fishing hamlet near Thiruvananthapuram, announcing the birth of India's space programme. The rocket, the payload, the radar, the computer, the helicopter - all that was required for the launch - came from outside the country. Fifty years later, on 5 November 2013, when ISRO launched its Mars Orbiter Mission (MOM) from the Satish Dhawan Space Centre, Sriharikota, all of it had been indigenously manufactured. Ten months after the launch, on 24 September 2014, India became the first country in the world to put a satellite around the Red Planet in the very first attempt. From Fishing Hamlet to Red Planet tracks this stupendous journey through articles, interviews and reminiscences with contributions from intellectual giants like Dr Vikram Sarabhai, Satish Dhawan, M.S. Swaminathan, Jacques Blamont, Dr A.P.J. Abdul Kalam, U.R. Rao and Dr K. Kasturirangan, among others, this is the story of India's space journey from its modest beginnings to its rendezvous with Mars.

Mathematica Navigator

Physics

From Fishing Hamlet to Red Planet

Understanding Digital Societies

With Mla Update

This introductory programming textbook integrates BlueJ with Java. It provides a thorough treatment of object-oriented principles.