

Principles Of Object Oriented Modeling And Simulation Of

Peter Fritzson

Principles of Object-Oriented Modeling and Simulation with Modelica 2.1 Peter Fritzson,2010-08-31 Provides an introduction to modern object-oriented design principles and applications for the fast-growing area of modeling and simulation Covers the topic of multi-domain system modeling and design with applications that have components from several areas Serves as a reference for the Modelica language as well as a comprehensive overview of application model libraries for a number of application domains

Principles of Object-Oriented Modeling and Simulation with Modelica 3.3 Peter Fritzson,2015-01-06 Fritzson covers the Modelica language in impressive depth from the basic concepts such as cyber-physical, equation-base, object-oriented, system, model, and simulation, while also incorporating over a hundred exercises and their solutions for a tutorial, easy-to-read experience. The only book with complete Modelica 3.3 coverage Over one hundred exercises and solutions Examines basic concepts such as cyber-physical, equation-based, object-oriented, system, model, and simulation

Object Oriented Simulation José M. Garrido,2009-05-28 Object Oriented Simulation will qualify as a valuable resource to students and accomplished professionals and researchers alike, as it provides an extensive, yet comprehensible introduction to the basic principles of object-oriented modeling, design and implementation of simulation models. Key features include an introduction to modern commercial graphical simulation and animation software, accessible breakdown of OOSimL language constructs through various programming principles, and extensive tutorial materials ideal for undergraduate classroom use.

Introduction to Modeling and Simulation of Technical and Physical Systems with Modelica Peter Fritzson,2011-10-03 Master modeling and simulation using Modelica, the new powerful, highly versatile object-based modeling language Modelica, the new object-based software/hardware modeling language that is quickly gaining popularity around the world, offers an almost universal approach to high-level computational modeling and simulation. It handles a broad range of application domains, for example mechanics, electrical systems, control, and thermodynamics, and facilitates general notation as well as powerful abstractions and efficient implementations. Using the versatile Modelica language and its associated technology, this text presents an object-oriented, component-based approach that makes it possible for readers

to quickly master the basics of computer-supported equation-based object-oriented (EEO) mathematical modeling and simulation. Throughout the text, Modelica is used to illustrate the various aspects of modeling and simulation. At the same time, a number of key concepts underlying the Modelica language are explained with the use of modeling and simulation examples. This book: Examines basic concepts such as systems, models, and simulations Guides readers through the Modelica language with the aid of several step-by-step examples Introduces the Modelica class concept and its use in graphical and textual modeling Explores modeling methodology for continuous, discrete, and hybrid systems Presents an overview of the Modelica Standard Library and key Modelica model libraries Readers will find plenty of examples of models that simulate distinct application domains as well as examples that combine several domains. All the examples and exercises in the text are available via DrModelica. This electronic self-teaching program, freely available on the text's companion website, guides readers from simple, introductory examples and exercises to more advanced ones. Written by the Director of the Open Source Modelica Consortium, Introduction to Modeling and Simulation of Technical and Physical Systems with Modelica is recommended for engineers and students interested in computer-aided design, modeling, simulation, and analysis of technical and natural systems. By building on basic concepts, the text is ideal for students who want to learn modeling, simulation, and object orientation.

Handbook of Simulation Jerry Banks, 1998-09-14 Dieses Buch ist eine unschätzbare Informationsquelle für alle Ingenieure, Designer, Manager und Techniker bei Entwicklung, Studium und Anwendung einer großen Vielzahl von Simulationstechniken. Es vereint die Arbeit internationaler Simulationsexperten aus Industrie und Forschung. Alle Aspekte der Simulation werden in diesem umfangreichen Nachschlagewerk abgedeckt. Der Leser wird vertraut gemacht mit den verschiedenen Techniken von Industriesimulationen sowie mit Einsatz, Anwendungen und Entwicklungen. Neueste Fortschritte wie z.B. objektorientierte Programmierung werden ebenso behandelt wie Richtlinien für den erfolgreichen Umgang mit simulationsgestützten Prozessen. Auch gibt es eine Liste mit den wichtigsten Vertriebs- und Zulieferadressen. (10/98)

Object-Oriented Simulation with Hierarchical, Modular Models Bernard P. Zeigler, 2014-05-10 Object-Oriented Simulation with Hierarchical, Modular Models: Intelligent Agents and Endomorphic Systems describes an approach to object-oriented discrete event simulation and the concepts of hierarchical, modular model construction, The implementation of the concepts of multifaceted modeling methodology in the DEVS-Scheme modeling and simulation environment is discussed. The use of the DEVS-Scheme environment in modeling artificial intelligent agents is also considered, along with the concept of endomorphism to characterize the application of self-embedded models, including models of self. Comprised of 15 chapters, this book begins with an overview of the dimensions of knowledge representation in simulation environments, followed by a discussion on object-oriented programming as well as the concepts of modular, hierarchical models and the system entity

structure. Subsequent chapters focus on digraph-models and experimental frames; DEVS formalism and DEVS-Scheme simulation environment; a model base for simple multi-computer architectures; and rule-based specification of atomic models. Model bases in endomorphic systems and intelligent agents are also examined. This monograph will be of interest to simulation theorists as well as practitioners and researchers in the fields of artificial intelligence, systems engineering, computer science and engineering, and operations research.

Principles of Object-Oriented Modeling and Simulation with Modelica 3.3 Peter Fritzson,2014-11-24 Fritzson covers the Modelica language in impressive depth from the basic concepts such as cyber-physical, equation-base, object-oriented, system, model, and simulation, while also incorporating over a hundred exercises and their solutions for a tutorial, easy-to-read experience. The only book with complete Modelica 3.3 coverage Over one hundred exercises and solutions Examines basic concepts such as cyber-physical, equation-based, object-oriented, system, model, and simulation

Mechatronics by Bond Graphs Vjekoslav Damic,John Montgomery,2016-01-14 This book presents a computer-aided approach to the design of mechatronic systems. Its subject is an integrated modeling and simulation in a visual computer environment. Since the first edition, the simulation software changed enormously, became more user-friendly and easier to use. Therefore, a second edition became necessary taking these improvements into account. The modeling is based on system top-down and bottom-up approach. The mathematical models are generated in a form of differential-algebraic equations and solved using numerical and symbolic algebra methods. The integrated approach developed is applied to mechanical, electrical and control systems, multibody dynamics, and continuous systems.

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Engineering Principles of Combat Modeling and Distributed Simulation Andreas Tolk,2012-03-20 Explore the military and combat applications of modeling and simulation Engineering Principles of Combat Modeling and Distributed Simulation is the first book of its kind to address the three perspectives that simulation engineers must master for successful military and defense related modeling: the operational view (what needs to be modeled); the conceptual view (how to do combat modeling); and the technical view (how to conduct distributed simulation). Through methods from the fields of operations research, computer science, and engineering, readers are guided through the history, current training practices, and modern methodology related to combat modeling and distributed simulation systems. Comprised of contributions from leading international researchers and practitioners, this book provides a comprehensive overview of the engineering principles and

state-of-the-art methods needed to address the many facets of combat modeling and distributed simulation and features the following four sections: Foundations introduces relevant topics and recommended practices, providing the needed basis for understanding the challenges associated with combat modeling and distributed simulation. Combat Modeling focuses on the challenges in human, social, cultural, and behavioral modeling such as the core processes of move, shoot, look, and communicate within a synthetic environment and also equips readers with the knowledge to fully understand the related concepts and limitations. Distributed Simulation introduces the main challenges of advanced distributed simulation, outlines the basics of validation and verification, and exhibits how these systems can support the operational environment of the warfighter. Advanced Topics highlights new and developing special topic areas, including mathematical applications for combat modeling; combat modeling with high-level architecture and base object models; and virtual and interactive digital worlds. Featuring practical examples and applications relevant to industrial and government audiences, *Engineering Principles of Combat Modeling and Distributed Simulation* is an excellent resource for researchers and practitioners in the fields of operations research, military modeling, simulation, and computer science. Extensively classroom tested, the book is also ideal for courses on modeling and simulation; systems engineering; and combat modeling at the graduate level.

Nonlinear Dynamic Modeling of Physiological Systems Professor Vasilis Z. Marmarelis, 2004-09-03 The study of nonlinearities in physiology has been hindered by the lack of effective ways to obtain nonlinear dynamic models from stimulus-response data in a practical context. A considerable body of knowledge has accumulated over the last thirty years in this area of research. This book summarizes that progress, and details the most recent methodologies that offer practical solutions to this daunting problem. Implementation and application are discussed, and examples are provided using both synthetic and actual experimental data. This essential study of nonlinearities in physiology appraises researchers and students of the latest findings and techniques in the field.

Object-Oriented Analysis and Design for Information Systems Raul Sidnei Wazlawick, 2014-01-28 Object-Oriented Analysis and Design for Information Systems clearly explains real object-oriented programming in practice. Expert author Raul Sidnei Wazlawick explains concepts such as object responsibility, visibility and the real need for delegation in detail. The object-oriented code generated by using these concepts in a systematic way is concise, organized and reusable. The patterns and solutions presented in this book are based in research and industrial applications. You will come away with clarity regarding processes and use cases and a clear understand of how to expand a use case. Wazlawick clearly explains clearly how to build meaningful sequence diagrams. Object-Oriented Analysis and Design for Information Systems illustrates how and why building a class model is not just placing classes into a diagram. You will learn the necessary organizational patterns so that your software architecture will be maintainable. - Learn how to build better class models, which are more maintainable and understandable. - Write use cases in a more efficient and standardized way, using more effective and less

complex diagrams. - Build true object-oriented code with division of responsibility and delegation.

The Object Primer Scott W. Ambler,2004-03-22 The acclaimed beginner's book on object technology now presents UML 2.0, Agile Modeling, and object development techniques.

A Guide to MATLAB Object-Oriented Programming Andy H. Register,2007-05-14 The first book to deliver broad coverage of the documented and undocumented object-oriented features of MATLAB, this guide aids readers in creating effective software. Eight basic functions are discussed: constructor, subsref, subsasgn, display, struct, fieldnames, get, and set. Also explored are inheritance topics and the Class Wizard, a powerful MATLAB class generation tool. The final section delves into advanced strategies, including vectorized classes, containers, static variables, and function fronts, protected visibility, and pass-by-reference visibility. Included is a CD-ROM with source code, enabling readers to experiment with modifications and apply new concepts.

System Design, Modeling, and Simulation Claudius Ptolemaeus,2013-09-27 This book is a definitive introduction to models of computation for the design of complex, heterogeneous systems. It has a particular focus on cyber-physical systems, which integrate computing, networking, and physical dynamics. The book captures more than twenty years of experience in the Ptolemy Project at UC Berkeley, which pioneered many design, modeling, and simulation techniques that are now in widespread use. All of the methods covered in the book are realized in the open source Ptolemy II modeling framework and are available for experimentation through links provided in the book. The book is suitable for engineers, scientists, researchers, and managers who wish to understand the rich possibilities offered by modern modeling techniques. The goal of the book is to equip the reader with a breadth of experience that will help in understanding the role that such techniques can play in design.

Object - Oriented Modeling And Design With Uml, 2/E Michael Blaha,Blaha,2007-09 The revision offers a crisp, clear explanation of the basics of object-oriented thinking via UML models, then presents a process for applying these principles to software development, including C++, Java, and relational databases. An integrated case study threads throughout the book, illustrating key ideas as well as their application.

The Fundamental Concepts of Object-Oriented Programming Dimitrios Kalemis,2013-10-07 Where does structured programming end and object-oriented programming (OOP) begin? What are OOP's fundamental concepts and what is the reason behind them? This book will answer these questions and will also give you an insightful perspective into OOP, based on its fundamental concepts. It is likely that you will have many a-ha moments reading this book and, at the end, you may even reach a feeling of enlightenment.

Modeling and Simulation in Python Allen B. Downey,2023-05-30 Modeling and Simulation in Python teaches readers how to analyze real-world scenarios using the Python programming language, requiring no more than a background in high school

math. Modeling and Simulation in Python is a thorough but easy-to-follow introduction to physical modeling—that is, the art of describing and simulating real-world systems. Readers are guided through modeling things like world population growth, infectious disease, bungee jumping, baseball flight trajectories, celestial mechanics, and more while simultaneously developing a strong understanding of fundamental programming concepts like loops, vectors, and functions. Clear and concise, with a focus on learning by doing, the author spares the reader abstract, theoretical complexities and gets right to hands-on examples that show how to produce useful models and simulations.

System Design Automation Renate Merker, Wolfgang Schwarz, 2001-03-31 Design automation of electronic and hybrid systems is a steadily growing field of interest and a permanent challenge for researchers in Electronics, Computer Engineering and Computer Science. System Design Automation presents some recent results in design automation of different types of electronic and mechatronic systems. It deals with various topics of design automation, ranging from high level digital system synthesis, through analogue and heterogeneous system analysis and design, up to system modeling and simulation. Design automation is treated from the aspects of its theoretical fundamentals, its basic approach and its methods and tools. Several application cases are presented in detail. The book consists of three chapters: High-Level System Synthesis (Digital Hardware/Software Systems). Here embedded systems, distributed systems and processor arrays as well as hardware-software codesign are treated. Also three special application cases are discussed in detail; Analog and Heterogeneous System Design (System Approach and Methodology). This chapter copes with the analysis and design of hybrid systems comprised of analog and digital, electronic and mechanical components; System Simulation and Evaluation (Methods and Tools). In this chapter object-oriented Modelling, analog system simulation including fault-simulation, parameter optimization and system validation are regarded. The contents of the book are based on material presented at the Workshop System Design Automation (SDA 2000) organised by the Sonderforschungsbereich 358 of the Deutsche Forschungsgemeinschaft at TU Dresden.

Object-Oriented Design and Programming with C++ Ronald Leach, 2014-05-12 Object-Oriented Design and Programming with C++: Your Hands-On Guide to C++ Programming, with Special Emphasis on Design, Testing, and Reuse provides a list of software engineering principles to guide the software development process. This book presents the fundamentals of the C++ language. Organized into two parts encompassing 10 chapters, this book begins with an overview of C++ and describes object-oriented programming and the history of C++. This text then introduces classes, polymorphism, inheritance, and overloading. Other chapters consider the C++ preprocessor and organization of class libraries. This book discusses as well the scope rules, separate compilation, class libraries, and their organization, exceptions, browsers, and exception handling. The final chapter deals with the design of a moderately complex system that provides file system stimulation. This book is a valuable resource for readers who are reasonably familiar with the C programming language and want to understand the

issues in object-oriented programming using C++.

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