

Download Ebook Object Oriented Software Engineering Ali Bahrami Text Read Pdf Free

Object Oriented Systems Development Towards the Internet of Things Smart Microgrids Daily Report Artificial Neural Networks for Intelligent Manufacturing Agent and Web Service Technologies in Virtual Enterprises Phononic Crystals Object-oriented System Development Object-oriented Methods Information Granularity, Big Data, and Computational Intelligence Biophysics Numbers Don't Lie Object-oriented Software Engineering Iran in an Emerging New World Order UML for Java Programmers Software Modeling and Design Big Data and Computational Intelligence in Networking Federal Register Software Development with UML Fundamentals of Object-oriented Design in UML Smith's Textbook of Endourology Air Wars Object-Oriented Analysis and Design Test Your C++ Skills Daily Report In a Voice of Their Own Web Services - ICWS 2020 Redesigning Continuing Education in the Health Professions Object-Process Methodology Deep Learning The Book of Tehran Production, Quality Control and Clinical Applications of Radiosynovectomy Agents UML 2 Toolkit Covid Acts of Kindness LET US C SOLUTIONS -15TH EDITION The Difficult Airway Exploring C The Blue Castle Membrane Technology for Water and Wastewater Treatment, Energy and Environment Unmanned Aircraft Systems Traffic Management

With this book, software engineers, project managers, and tool builders will be able to better understand the role of analysis and design in the object-oriented (OO) software development process. This book presents a minimum set of notions and shows the reader how to use these notions for OO software construction. The emphasis is on development principles and implementation. Therapeutic radiopharmaceuticals play a major role in today's nuclear medicine with a positive impact on the diagnosis and treatment of diseases. One area of application is radiation synovectomy (RSV). With this book, object-oriented developers can hone the skills necessary to create the foundation for quality software: a first-rate design. The book introduces notation, principles, and terminology that developers can use to evaluate their designs and discuss them meaningfully with colleagues. Every developer will appreciate the detailed diagrams, on-point examples, helpful exercises, and troubleshooting techniques. The Difficult Airway provides a comprehensive textual and visual coverage of how to deal with patients who have expected or unexpected difficult airways. The text begins with a description of the incidence and importance of the difficult airway and then describes the ASA Difficult Airway Algorithm created to facilitate the management of "difficult airways." The majority of the book features a comprehensive step-by-step approach to the rescue techniques listed as part of the ASA Algorithm. Noted experts in each of the techniques have been recruited by the book editors to present the information. Figures throughout the book illustrate important points and procedures. This is a wonderful resource for professionals in the health care field including anesthesiologists, intensive care physicians, emergency room physicians, nurses, and out-of-hospital first responders. Description: Best way to learn any programming language is to create good programs in it. C is not exception to this rule. Once you decide to write any program you would find that there are always at least two ways to write

it. So you need to find out whether you have chosen the best way to implement your program. That's where you would find this book useful. It contains solutions to all the exercises present in Let Us C 15th Edition. If you learn the language elements from Let Us C, write programs for the problems given in the exercises and then cross check your answers with the solutions given in this book you would be well on your way to become a skilled C programmer. I am sure you would appreciate this learning path like the millions of students and professionals have in the past decade.

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This book presents state-of-the-art solutions to the theoretical and practical challenges stemming from the leverage of big data and its computational intelligence in supporting smart network operation, management, and optimization. In particular, the technical focus covers the comprehensive understanding of network big data, efficient collection and management of network big data, distributed and scalable online analytics for network big data, and emerging applications of network big data for computational intelligence. They are each directed toward the understanding of a biological principle, with a particular emphasis on human biology. Object-Process Methodology (OPM) is an intuitive approach to systems engineering. This book presents the theory and practice of OPM with examples from various industry segments and engineering disciplines, as well as daily life. OPM is a generic, domain independent approach that is applicable almost anywhere in systems engineering. Today in the United States, the professional health workforce is not consistently prepared to provide high quality health care and assure patient safety, even as the nation spends more per capita on health care than any other country. The absence of a comprehensive and well-integrated system of continuing education (CE) in the health professions is an important contributing factor to knowledge and performance deficiencies at the individual and system levels. To be most effective, health professionals at every stage of their careers must continue learning about advances in research and treatment in their fields (and related fields) in order to obtain and maintain up-to-date knowledge and skills in caring for their patients. Many health professionals regularly undertake a variety of efforts to stay up to date, but on a larger scale, the nation's approach to CE for health professionals fails to support the professions in their efforts to achieve and maintain proficiency. Redesigning Continuing Education in the Health Professions illustrates a vision for a better system through a comprehensive approach of continuing professional development, and posits a framework upon which to develop a new, more effective system. The book also offers principles to guide the creation of a national continuing education institute. Gain the skills to effectively plan software applications and systems using the latest version of UML UML 2 represents a significant update to the UML specification, from providing more

robust mechanisms for modeling workflow and actions to making the modeling language more executable. Now in its second edition, this bestselling book provides you with all the tools you'll need for effective modeling with UML 2. The authors get you up to speed by presenting an overview of UML and its main features. You'll then learn how to apply UML to produce effective diagrams as you progress through more advanced topics such as use-case diagrams, classes and their relationships, dynamic diagrams, system architecture, and extending UML. The authors take you through the process of modeling with UML so that you can successfully deliver a software product or information management system. With the help of numerous examples and an extensive case study, this book teaches you how to:

- * Organize, describe, assess, test, and realize use cases***
- * Gain substantial information about a system by using classes***
- * Utilize activity diagrams, state machines, and interaction diagrams to handle common issues***
- * Extend UML features for specific environment or domains***
- * Use UML as part of a Model Driven Architecture initiative***
- * Apply an effective process for using UML***

The CD-ROM contains all of the UML models and Java™ code for a complete application, Java™ 2 Platform, Standard Edition, Version 1.4.1, and links to the Web sites for vendors of UML 2 tools. In this book the authors first provide a comprehensive survey on the available studies on control, management, and optimization strategies in AC and DC microgrids. The authors then provide the design of a laboratory-scale microgrid system. Finally, a real-world implementation of the deigned framework is provided. This book paves the way for researchers working on the smart microgrids spread over the fields of electrical engineering, power systems, and smart infrastructures. Furthermore, it provides the readers with a comprehensive insight to understand an in-depth big picture of smart microgrids as well as an all-inclusive framework for laboratory-scale implementation of a microgrid. It is suitable for senior undergraduate students, graduate students who are interested in research in areas related to future smart grids and microgrids, and the researchers working in the related areas. This book also can be used as a reference book for researchers who want to develop laboratories on smart microgrids for future research. This book introduces unmanned aircraft systems traffic management (UTM) and how this new paradigm in traffic management integrates unmanned aircraft operations into national airspace systems. Exploring how UTM is expected to operate, including possible architectures for UTM implementations, and UTM services, including flight planning, strategic coordination, and conformance monitoring, Unmanned Aircraft Systems Traffic Management: UTM considers the boundaries of UTM and how it is expected to interlace with tactical coordination systems to maintain airspace safety. The book also presents the work of the global ecosystem of players advancing UTM, including relevant standards development organizations (SDOs), and considers UTM governance paradigms and challenges. FEATURES Describes UTM concept of operations (ConOps) and global variations in architectures Explores envisioned UTM services, including flight planning, strategic coordination, conformance monitoring, contingency management, constraints and geo-awareness, and remote identification Highlights cybersecurity standards development and awareness Covers approaches to the approval, management, and oversight of UTM components and ecosystem Considers the future of UTM and potential barriers to its success, international coordination, and regulatory reform This book is an essential, in-depth, annotated resource for developers, unmanned

aircraft system operators, pilots, policy makers, researchers, and academics engaged in unmanned systems, transportation management, and the future of aviation. The quest for building systems that can function automatically has attracted a lot of attention over the centuries and created continuous research activities. As users of these systems we have never been satisfied, and demand more from the artifacts that are designed and manufactured. The current trend is to build autonomous systems that can adapt to changes in their environment. While there is a lot to be done before we reach this point, it is not possible to separate manufacturing systems from this trend. The desire to achieve fully automated manufacturing systems is here to stay. Manufacturing systems of the twenty-first century will demand more flexibility in product design, process planning, scheduling and process control. This may well be achieved through integrated software and hardware architectures that generate current decisions based on information collected from manufacturing systems environment, and execute these decisions by converting them into signals transferred through communication network. Manufacturing technology has not yet reached this state. However, the urge for achieving this goal is transferred into the term 'Intelligent Systems' that we started to use more in late 1980s. Knowledge-based systems, our first efforts in this endeavor, were not sufficient to generate the 'Intelligence' required - our quest still continues. Artificial neural network technology is becoming an integral part of intelligent manufacturing systems and will have a profound impact on the design of autonomous engineering systems over the next few years. L. M. Montgomery is perhaps best known as an author of youth fiction, especially her Anne of Green Gables series. But of her novels intended for adult readers, The Blue Castle is the most famous. In Valancy Stirling's rural Ontario town, marriage is thought to be a young woman's vital accomplishment. Yet Valancy, now in her late 20s, has never had a flicker of interest from any suitor. Add to this the oppressive home life she endures with her mother, and Valancy's misery is complete. In order to find some relief, she builds a fantasy world in her imagination—her "Blue Castle"—full of love and beauty. Even this, however, fails to support her when her chest pains prove to be the sign of a terminal condition. This traumatic discovery combines with Valancy's inspirational reading to prompt her to take back her life—much to her relatives' consternation. Undeterred, Valancy finds new worth and freedom in relationships she could never have imagined before, which bring their own surprising twists and turns. The recent pursuits emerging in the realm of big data processing, interpretation, collection and organization have emerged in numerous sectors including business, industry and government organizations. Data sets such as customer transactions for a mega-retailer, weather monitoring, intelligence gathering, quickly outpace the capacities of traditional techniques and tools of data analysis. The 3V (volume, variability and velocity) challenges led to the emergence of new techniques and tools in data visualization, acquisition, and serialization. Soft Computing being regarded as a plethora of technologies of fuzzy sets (or Granular Computing), neurocomputing and evolutionary optimization brings forward a number of unique features that might be instrumental to the development of concepts and algorithms to deal with big data. This carefully edited volume provides the reader with an updated, in-depth material on the emerging principles, conceptual underpinnings, algorithms and practice of Computational Intelligence in the realization of concepts and implementation of big data architectures, analysis, and interpretation as well as

data analytics. The book is aimed at a broad audience of researchers and practitioners including those active in various disciplines in which big data, their analysis and optimization are of genuine relevance. One focal point is the systematic exposure of the concepts, design methodology, and detailed algorithms. In general, the volume adheres to the top-down strategy starting with the concepts and motivation and then proceeding with the detailed design that materializes in specific algorithms and representative applications. The material is self-contained and provides the reader with all necessary prerequisites and augments some parts with a step-by-step explanation of more advanced concepts supported by a significant amount of illustrative numeric material and some application scenarios to motivate the reader and make some abstract concepts more tangible. "Vaclav Smil is my favorite author... Numbers Don't Lie takes everything that makes his writing great and boils it down into an easy-to-read format. I unabashedly recommend this book to anyone who loves learning."--Bill Gates, GatesNotes From the author of How the World Really Works, an essential guide to understanding how numbers reveal the true state of our world--exploring a wide range of topics including energy, the environment, technology, transportation, and food production. Vaclav Smil's mission is to make facts matter. An environmental scientist, policy analyst, and a hugely prolific author, he is Bill Gates' go-to guy for making sense of our world. In Numbers Don't Lie, Smil answers questions such as: What's worse for the environment--your car or your phone? How much do the world's cows weigh (and what does it matter)? And what makes people happy? From data about our societies and populations, through measures of the fuels and foods that energize them, to the impact of transportation and inventions of our modern world--and how all of this affects the planet itself--in Numbers Don't Lie, Vaclav Smil takes us on a fact-finding adventure, using surprising statistics and illuminating graphs to challenge conventional thinking. Packed with fascinating information and memorable examples, Numbers Don't Lie reveals how the US is leading a rising worldwide trend in chicken consumption, that vaccination yields the best return on investment, and why electric cars aren't as great as we think (yet). Urgent and essential, with a mix of science, history, and wit--all in bite-sized chapters on a broad range of topics--Numbers Don't Lie inspires readers to interrogate what they take to be true. This book presents a comprehensive framework for IoT, including its architectures, security, privacy, network communications, and protocols. The book starts by providing an overview of the aforementioned research topics, future directions and open challenges that face the IoT development. The authors then discuss the main architectures in the field, which include Three- and Five-Layer Architectures, Cloud and Fog Based Architectures, a Social IoT Application Architecture. In the security chapter, the authors outline threats and attacks, privacy preservation, trust and authentication, IoT data security, and social awareness. The final chapter presents case studies including smart home, wearables, connected cars, industrial Internet, smart cities, IoT in agriculture, smart retail, energy engagement, IoT in healthcare, and IoT in poultry and farming. Discusses ongoing research into the connection of the physical and virtual worlds; Includes the architecture, security, privacy, communications, and protocols of IoT; Presents a variety of case studies in IoT including wearables, smart cities, and energy management. This book constitutes the proceedings of the International Conference on Web of Services, ICWS 2020, held virtually as part of SCF 2020, in

Honolulu, HI, USA, in September 2020. The 14 full papers presented in this volume were carefully reviewed and selected from 52 submissions. The conference proceeding ICWS 2020 presents the latest fundamental advances in the state of the art and practice of Web-based services, identify emerging research topics, and define the future of Web-based services. All topics regarding Web-centric services, enabling technologies and applications align with the theme of ICWS. Object-oriented analysis and design (OOAD) has over the years, become a vast field, encompassing such diverse topics as design process and principles, documentation tools, refactoring, and design and architectural patterns. For most students the learning experience is incomplete without implementation. This new textbook provides a comprehensive introduction to OOAD. The salient points of its coverage are: • A sound footing on object-oriented concepts such as classes, objects, interfaces, inheritance, polymorphism, dynamic linking, etc. • A good introduction to the stage of requirements analysis. • Use of UML to document user requirements and design. • An extensive treatment of the design process. • Coverage of implementation issues. • Appropriate use of design and architectural patterns. • Introduction to the art and craft of refactoring. • Pointers to resources that further the reader's knowledge. All the main case-studies used for this book have been implemented by the authors using Java. The text is liberally peppered with snippets of code, which are short and fairly self-explanatory and easy to read. Familiarity with a Java-like syntax and a broad understanding of the structure of Java would be helpful in using the book to its full potential.

A city of stories - short, fragmented, amorphous, and at times contradictory - Tehran is an impossible tale to tell. For the capital city of one of the most powerful nations in the Middle East, its literary output is rarely acknowledged in the West. This unique celebration of its writing brings together ten stories exploring the tensions and pressures that make the city what it is: tensions between the public and the private, pressures from without - judgemental neighbours, the expectations of religion and society - and from within - family feuds, thwarted ambitions, destructive relationships. The psychological impact of these pressures manifests in different ways: a man wakes up to find a stranger relaxing in his living room and starts to wonder if this is his house at all; a struggling writer decides only when his girlfriend breaks his heart will his work have depth... In all cases, coping with these pressures leads us, the readers, into an unexpected trove of cultural treasures - like the burglar, in one story, descending into the basement of a mysterious antique collector's house - treasures of which we, in the West, are almost wholly ignorant. Translated by: Sara Khalili, Sholeh Wolpé, Alireza Abiz, Caroline Croskery, Farzaneh Doosti, Shahab Vaezzadeh, Niloufar Talebi, Lida Nosrati, Susan Niazi and Poupeh Missaghi. Foreword by Orkideh Behrouzan. Developed in partnership with Visiting Arts. 'The aesthetic sensibility of Iranian culture appears, to the West, as mainly pre-modern, if not actually anti-modern... The fiction showcased in The Book of Tehran is a welcome corrective to this tendency... These stories feel decidedly contemporary in style and subject matter alike, with their protagonists' inner lives and interpersonal relationships at the fore.' - The Times Literary Supplement 'Fiction exploring the interior life of contemporary Iranians is not well represented in translations readily available in the West. The Book of Tehran aims to begin to redress the shortage...' - Asian Review of Books This book provides an in-depth analysis as well as an overview of phononic crystals. This book discusses numerous

techniques for the analysis of phononic crystals and covers, among other material, sonic and ultrasonic structures, hypersonic planar structures and their characterization, and novel applications of phononic crystals. This is an ideal book for those working with micro and nanotechnology, MEMS (microelectromechanical systems), and acoustic devices. This book also: Presents an introduction to the fundamentals and properties of phononic crystals Covers simulation techniques for the analysis of phononic crystals Discusses sonic and ultrasonic, hypersonic and planar, and three-dimensional phononic crystal structures Illustrates how phononic crystal structures are being deployed in communication systems and sensing systems Accompanying DVD-ROM, in pocket at front of v. 1, contains ... "video clips referenced in the text."--DVD-ROM label. The Unified Modeling Language has become the industry standard for the expression of software designs. The Java programming language continues to grow in popularity as the language of choice for the serious application developer. Using UML and Java together would appear to be a natural marriage, one that can produce considerable benefit. However, there are nuances that the seasoned developer needs to keep in mind when using UML and Java together. Software expert Robert Martin presents a concise guide, with numerous examples, that will help the programmer leverage the power of both development concepts. The author ignores features of UML that do not apply to java programmers, saving the reader time and effort. He provides direct guidance and points the reader to real-world usage scenarios. The overall practical approach of this book brings key information related to Java to the many presentations. The result is an highly practical guide to using the UML with Java. An introduction to a broad range of topics in deep learning, covering mathematical and conceptual background, deep learning techniques used in industry, and research perspectives. "Written by three experts in the field, Deep Learning is the only comprehensive book on the subject." —Elon Musk, cochair of OpenAI; cofounder and CEO of Tesla and SpaceX Deep learning is a form of machine learning that enables computers to learn from experience and understand the world in terms of a hierarchy of concepts. Because the computer gathers knowledge from experience, there is no need for a human computer operator to formally specify all the knowledge that the computer needs. The hierarchy of concepts allows the computer to learn complicated concepts by building them out of simpler ones; a graph of these hierarchies would be many layers deep. This book introduces a broad range of topics in deep learning. The text offers mathematical and conceptual background, covering relevant concepts in linear algebra, probability theory and information theory, numerical computation, and machine learning. It describes deep learning techniques used by practitioners in industry, including deep feedforward networks, regularization, optimization algorithms, convolutional networks, sequence modeling, and practical methodology; and it surveys such applications as natural language processing, speech recognition, computer vision, online recommendation systems, bioinformatics, and videogames. Finally, the book offers research perspectives, covering such theoretical topics as linear factor models, autoencoders, representation learning, structured probabilistic models, Monte Carlo methods, the partition function, approximate inference, and deep generative models. Deep Learning can be used by undergraduate or graduate students planning careers in either industry or research, and by software engineers who want to begin using deep learning in their products or platforms.

A website offers supplementary material for both readers and instructors. This book covers the essential knowledge and skills needed by a student who is specializing in software engineering. Readers will learn principles of object orientation, software development, software modeling, software design, requirements analysis, and testing. The use of the Unified Modelling Language to develop software is taught in depth. Many concepts are illustrated using complete examples, with code written in Java. COVID ACTS OF KINDNESS was born out of the global challenge caused by COVID-19. The pandemic caused world-wide lockdowns, economic crises, and loss of lives, but the light of HOPE kept blinking throughout due to the many deeds of kindness. This book is a snapshot of the memories, experiences, and observations of people during this pandemic. Authors: Abolfazl Abdollahi, Fahime Abdyazdan, Ramila Abediazar, Sirius Aghajari, Dr. Mohammad Taghi Ahady, Roya Ahmadzadeh, Hooman Aievani, Homayoon Aievani, Nazanin Akbari Noghabi, Milad Almasian, Mohsen Almasian, Sania Amel Valizadeh, Banafsheh Amiraslani, Morteza Amuei, Zahra Ansari, Samineh Saadat Arabi, Neda Asghari Kollahi, Shaghayegh Ashouri, Maryam Sadat Asnafi, Arezoo Assareh, Pania Attar, Parnian Attar, Mohammad Ali Azad, Mohammadali Azarbadegan, Azadeh Azhand, Nafiseh Azimi Zadeh, Elnaz Babazadeh Bonyadi, Fateme Bahrami Douchali, Maedeh Bahreinian, Mahdi Banisharif Dehkordi, Zahra Barani Banoei, Morteza Bashiri, Hamed Bayat, Fahimeh Bayrami Latran, Ali Chafrasteh, Esmail Dargahi-Malellou, Soroush Daryaei, Niloofar Dastafshar, Sina Dejnabadi, Mehdi Delavari Hasan Kiadeh, Sina Delpasand, Mahyar Derisavi, Maedeh Ebrahimi, Mohammadreza Erfanian Parsa, Ehsan Eshghinour, Bahareh Ettehad, Farzaneh Fahimi, Rozita Farshid, Mohammad Reza Ghafoori Zarch, Alireza Ghannad Dezfouli, Mohammad-Reza Ghasemi, Simin Ghasemi, Mahsa Ghasemi Farid, Pegah Ghiasian, Fatemeh Ghobadi, Aylin Hadi, Mani Hadi, Najmaddin Hadi, Saeed Hadizadeh Kakhki, Samira Navazandeh Haghdoost, Behzad Haj Abbasi Mahani, Sohrab Haji Molla Hosseini, Khadijeh Hamidi, Kolsoum Hamidi, Anahita Hariri, Mohammadreza Hasanpour, Parastoo Hashemi, Soudabeh Hendijani, Masoumeh Beygom Hosseini, Mohamad Hossein Hosseini Vejdani, Tannaz Hosseinpour, Bentolhoda Jamshidi, Hamid Reza Jamshidi, Amir Hossein Janghorbanian, Golnar Kamyar, Saeed Karam, Zahra Karami, Zeinab Karami, Roya Karchani, Amir Karimi, Alireza Karimnejad, Toktam Kashani, Payam Khosravinejad, Naghmeh Koochak, Asghar Labbaf, Salman Lashkari, Amirhassan Mahboubi, Razie Manshaei, Alireza Mansourian, Mohammad Reza Masoumi Manesh, Elaheh Mazaheri, Reza Mazloum Bashiri, Seyede Marziyeh Mirabolghasemi Dehkordi, Seyed Mani Mirkhani, Masoud Mohammad Gholizadeh, Raziye Mohammadi, Zahra Mohammadi Gooshki, Fereshteh Mohammadi Zadeh, Mahtab Mohammadpour, Mitra Mohammadzadeh, Ashkan Moharamzade, Anoosheh Mohtadi, Mohammad Mokaram Teimouri, Mohammad Parsa Monazzam Esmaeilpour, Shayan Mostajeri, Shakiba Muhammadi, Hanita Naseri, Negar Nasirpour, Farzaneh Nasrollah Kelari, Mehraveh Nasrollah Kelari, Melina Nassaj, Mobin Nassaj, Mehdi Nazari, Fereshteh Nobakht, Foruzan Noruzian Aval, Ahmadali Tavakoli, Farzad Tavakoli, Farzin Tavakoli, Masoumeh Nouri, Hanieh Oliaei, Katayon Orduee, Ali Osivand, Soroush Ovaisi, Poroshat Paknahal, Fatemeh Parviznia, Mohammadhosein Piruzi, Fatemeh Poorjoopari, Omid Pourmehr, Zahra Qaredaqi, Barbad Raeisi Rostami, Hanieh Rafieinezhad, Roya Rahimi, Mohsen Rahimi Yanblagh, Mohammad Rakhshan, Ali Rashedi, Parinaz Rasti, Parisa Rezaei Pazhand, Parisa Rezamahdi, Mohammad Hossein Rezaghi, Farzaneh

Roostaei, Mohammad Hosein Roshanaei, Javad Rouzrokh, Parham Saba, Mitra Sadeghi Tabar, Kamyar Saeedabadi, Hassan Saeidi, Meysam Safari, Sara Safari, Bahareh Selahvarzi, Milad Salehi, Mostafa Salehi Vaziri, Saman Salimzade, Kamak Sangani, Mehdi Sattari, Meishan Sedaghati, Sepideh Seifi, Zinat Shaban, Sadighah Shahabi, Aris Shahbazian, Fatemeh Shahlaei Moghaddam, Roozbeh Shahlaei Moghaddam, Mohammad Reza Shanbeh, Fatemeh Sharafnia, Fatemeh Shetabandeh, Yasaman Shojaei, Behrad Shojaei Far, Najmeh Shojaei Veirani, Mehdi Sistani, Elahe Soleymani Novin, Aryan Taherkhani, Saeid Tahmasebi Berjouei Raki, Kamran Talebi, Mehdi Tavakoli Hosseinabadi, Ehsan Tavassoli, Atiyeh Vadood, Farshad Vahdatnia, Katayoun Velayati, Somayeh Yari Bandani, Shaghayegh Yousefi, Amirhossein Zamani, Zohreh Ziadnejad, Azita Ziaei, Matin Ziai Rad, Ali Zokaei Kuhbanani Since the previous edition of this popular and comprehensive book was published, there have been massive changes in the field of object technology. This book has been fully revised and updated to reflect the newest technologies and methodologies, including extensive coverage of middleware, components, Java & UML. If you are a developer or manager needing to succeed with objects, this book will give you a full understanding of the key concepts, benefits and pitfalls - plus what technologies and tools are available and how to evaluate them. It offers invaluable insights into the philosophy and real-world practice of today's leading object-oriented techniques and products. Major features of this edition: detailed chapter covering middleware and migration strategies chapter describing best practice for analysis and design, with in-depth focus on architecture and patterns plus a concise presentation of the Catalysis method for component based development revised coverage of requirements, featuring detailed description of the SOMA approach coverage of Java, in addition to other object-oriented programming languages Plus:- significantly revised coverage of object-oriented databases to address new and increasingly mature products- review of processes and project management including RUP and OPEN Process, and guidance on testing and UI design- new appendices summarizing the UML notation and background survey of 50 object oriented methods- self-test questions and model answers on accompanying web-site: www.trireme.com This book covers all you need to know to model and design software applications from use cases to software architectures in UML and shows how to apply the COMET UML-based modeling and design method to real-world problems. The author describes architectural patterns for various architectures, such as broker, discovery, and transaction patterns for service-oriented architectures, and addresses software quality attributes including maintainability, modifiability, testability, traceability, scalability, reusability, performance, availability, and security. Complete case studies illustrate design issues for different software architectures: a banking system for client/server architecture, an online shopping system for service-oriented architecture, an emergency monitoring system for component-based software architecture, and an automated guided vehicle for real-time software architecture. Organized as an introduction followed by several short, self-contained chapters, the book is perfect for senior undergraduate or graduate courses in software engineering and design, and for experienced software engineers wanting a quick reference at each stage of the analysis, design, and development of large-scale software systems. This book critically develops and discusses Iran's geopolitical imaginations and explores its various foreign-policy schools of thought and their controversies. In doing so, the book covers Iran's

foreign policy and international relations from "9/11" all the way to Rouhani's rise (late 2014). Accounting for both domestic and the international balance of power, the book theorizes the post-unipolar world order of the 2000s, dubbed "imperial interolarity", examines Iran's relations with non-Western great-powers in that era, and offers a critique of the "Rouhani doctrine" and its economic and foreign-policy visions. Forged in the fires and intense deliberations of a PhD, undertaken at a most unique institution of higher learning in the world, Ali Fathollah-Nejad has produced one of the most informative and evocative studies of Iran's foreign policy and international relations to date. Framed in a highly original theoretical approach, Ali's nuanced analysis, drawing on a lorry load of primary and secondary sources, details the process and context of policy in the Islamic Republic, thus producing an unrivalled and lasting account of modern Iran's worldview and the behaviour of this revolutionary state in a fast-changing world. —Anoush Ehteshami, Professor of International Relations & Director of the Institute for Middle Eastern and Islamic Studies, School of Government and International Affairs, Durham University (UK) Empirically rich and theoretically sophisticated, Iran in an Emerging New World Order flashes out the key drivers behind Iran's international relations since the mid-2000s. Providing evidence for the material and geopolitical significance of Iran's identity constructions, the book enriches the debate on the Islamic Republic's foreign policy and bridges the divide between the discipline of IR and area studies. —Fawaz A. Gerges, Professor of International Relations & inaugural Director, LSE Middle East Centre (2010-13), London School of Economics and Political Science (LSE); author of the forthcoming The 100 Years' War for Control of the Middle East (Princeton University Press, 2021). Ali Fathollah-Nejad has established himself as one of the most insightful observers of Iranian politics. Providing the analytical background to his assessments of Tehran's foreign policy in the 21st century, this book comes out opportunely at a time when a new U.S. administration is about to re-engage with Iran. —Gilbert Achcar, Professor of Development Studies and International Relations, SOAS (School of Oriental and African Studies) University of London A decisive contribution to two avant-gardist fields of knowledge: Critical geopolitics and Iranian foreign relations. Anyone interested in cutting-edge research that brings together International Relations and Iranian Studies will revel in this important book. —Arshin Adib-Moghaddam, Professor in Global Thought and Comparative Philosophies, Department of Politics and International Studies & former Chair (2012-18), Centre for Iranian Studies, SOAS University of London One of the few to have a thorough, beyond-the-headlines and forward-looking grasp of Iran, Ali Fathollah-Nejad offers a brilliant analysis of what is in store for Iran. A must-read for anybody interested in geopolitics. —Florence Gaub, Deputy Director & Director of Research, European Union Institute for Security Studies (EUISS), Paris It is no longer possible to think of any nation-state without simultaneously seeing the reflection of an entire changing world in it. Ali Fathollah-Nejad's prose and politics in Iran in an Emerging New World Order is the state-of-the-art mapping of the epistemic shift that seeks to understand the global in the local, and the domestic in the foreign. The result is a mode of supple and symbiotic thinking that reveals the way transnational politics dwells on the borderline where the fate of nations unravels into the fold of a dysfunctional disorder that has become the fact of our fragile world. —Hamid Dabashi, Hagop Kevorkian Professor of Iranian Studies and

Comparative Literature, Columbia University Iranian politics, outside of a small group of specialists, remains poorly understood. *Iran in an Emerging New World Order* helps demystify this subject. Thoroughly researched, very accessible and packed with insights, this book, focusing on the Ahmadinejad period, is highly recommended. It makes an important contribution to the study of internal Iranian politics, Iran's foreign policy orientation and the international relations of the Middle East. —Nader Hashemi, Director, Center for Middle East Studies & Associate Professor, Josef Korbel School of International Studies, University of Denver

Ali Fathollah-Nejad has produced an academic work that is, from my viewpoint, so far the most comprehensive one concerning Iranian standing in regional and international politics, its new political élite and their attitude towards the West and the world order. —Farhad Khosrokhavar, Professor in the Sociology of Contemporary Iran & Director of Studies at EHESS (École des hautes études en sciences sociales), the School for Advanced Studies in the Social Sciences, France

Since its inception in 1979, the Islamic Republic's initial foreign policy was based on the rejection of the bipolar international order under the banner of a "neither East nor West" policy. By the end of the Cold War and the emergence of a unipolar order, the Islamic Republic tried to adjust its approach to deal with the United States as a hegemonic power. Iran shifted its foreign policy toward the East as soon as the international order moved from unipolarity in the early 2000s. Why did Iran turn its foreign policy, and what were the consequences and ramifications of this shift? *Iran in an Emerging New World Order* dives deep to answer these questions. *Iran in an Emerging New World Order* is a comprehensive and critical review of Iran's foreign policy in post-unipolar world. As a delightful read full of important information and analyses, the book explores the domestic, regional, and international dimensions and ideational and material factors that shape and impact the Islamic Republic's geopolitical imaginations and foreign policy controversies. Fathollah-Nejad explores Iran's foreign-policy transformation from a unipolar to a (what he cautions as an increasingly but not fully-fledged) multipolar order, and its relations with non-Western great-powers in the 21st century. Written with clarity, *Iran in an Emerging New World Order* is a must-read primer for anyone interested in Iranian politics in particular and Middle East politics in general. —Saeid Golkar, Assistant Professor, Department of Political Science, University of Tennessee, Chattanooga; Senior Fellow on Iran Policy, Chicago Council on Global Affairs & author, *Captive Society: The Basij Militia and Social Control in Post-Revolutionary Iran* (Columbia University Press, 2015)

A competent, engaged and impressive study of Iran's foreign policy and its place in the world. Ali Fathollah-Nejad's most important quality is that he looks with a wide lens and sees not just Iranian politics and foreign policy (in which he is clearly an expert) but the dynamics of the broader world and changes in the international system. This book is thus a must-read for those interested in Iranian foreign policy but also in shifts and changes of the international system into the second decade of the 21st century. —Arash Azizi (New York University), author of *The Shadow Commander: Soleimani, the US, and Iran's Global Ambitions* (Oneworld Publications, 2020)

In presenting Iran as sets of complexities - within and how it acts externally; how it represents itself and is represented by others; its myriad political and religious cultures, and how these shape the state and its international relations - and locating those within a constantly-changing global environment, Fathollah-Nejad provides us with unique and alternative

assessments of how Iran's foreign policy is shaped within the context of what he calls "Imperial Interpolarity". The creative interplay of these various factors makes this an indispensable text for anyone wishing to understand Iran and its international relations within the current global political environment. —Na'eem Jeenah, Executive Director, Afro-Middle East Centre (AMEC), Johannesburg & advisory board member, World Congress for Middle Eastern Studies (WOCMES)

A magnificent and conceptually powerful book; an eye opener for those who essentialize the role of Iran in contemporary International Relations. This landmark study covers the complexity of Iran's cultural geopolitics and the diversity of its interlocutors in 21st-century world politics. The book is useful for delving into the internal dynamics of Iranian politics and its connection with the spheres of power in international relations. It is a very methodical book. Theoretically flawless. A deep, brilliant and enlightening academic text. —Moisés Garduño García, Professor in the Center for International Relations, National Autonomous University of Mexico (UNAM)

In this book, Ali Fathollah-Nejad goes beyond the usual one-dimensional view that dominates the study of Iran's foreign policy and presents a comprehensive framework explaining the interrelated role of socio-cultural, economic and geopolitical elements in shaping the Islamic Republic's foreign-policy orientation. The book also focuses on a crucial period involving two critical transitions: a systemic transition from the unipolar to the post-unipolar world order and a domestic one from a hardline to a more moderate worldview. All this makes the book a valuable contribution to the field. —Hamidreza Azizi, Alexander von Humboldt Fellow, Middle East and Africa Research Division, German Institute for International and Security Affairs (SWP) & former Assistant Professor of Regional Studies, Shahid Beheshti University, Tehran (2016-20)

Iran in an Emerging New World Order provides a timely and original account of foreign-policy making in the Islamic Republic of Iran, especially the turbulent first decade of the new millennium. —Kamran Matin, Senior Lecturer in International Relations, Sussex University & Associate Research Fellow, Swedish Institute of International Affairs (UI)

Ali Fathollah-Nejad's Iran in an Emerging New World Order builds on a reliable scientific approach and an informed overview of Iranian foreign policy. It identifies and examines the different factors which orientate it, such as its various schools of thought and their debates, the élites' role, the interplay between structure and culture, and the one between internal and external realms. Furthermore, it casts light on the evolution of Tehran's choices, including its "look to the East". In this new book, Fathollah-Nejad has provided a challenging study which demonstrates the need to go beyond conventional framings, to include political culture, and provides a new evaluation of Iran's international relations. This is an original and significant contribution to the literature on international relations, the workings of the Islamic Republic, and the understanding of the latter's regional and global actions. —Firouzeh Nahavandi, Professor of Sociology of Development and Political Science & Director, Institute of Sociology & Director, CECID (Center for International Cooperation and Development Studies), Université libre de Bruxelles (ULB), as well as President, Graduate School of Development Studies of French Community of Belgium

Through its careful analysis of a modern political culture in Iran gestated in the context of an encounter with European colonial modernity and evolved in correspondence with a catalogue of internal and external others, Ali Fathollah-Nejad's timely book places contemporary geopolitical concerns against a much-needed

backdrop of colonial and anti-colonial histories. —Siavash Saffari, Associate Professor of West Asian Studies, Department of Asian Languages and Civilizations, Seoul National University If you really want to dive deep into Iran and understand the reasons why its leaders are operating in the current crisis, this is the book you should read. It teaches analysts and policy-makers to understand the past to act wisely in the future. —Susanne Koelbl, award-winning Foreign Correspondent, Der Spiegel Realizing that water, energy and food are the three pillars to sustain the growth of human population in the future, this book deals with all the above aspects with particular emphasis on water and energy. In particular, the book addresses applications of membrane science and technology for water and wastewater treatment, energy and environment. Th This is an introductory book to information modelling with UML, for entry level university students. It assumes no previous knowledge of UML on the part of the reader, and uses a case-based approach to present the material clearly and accessibly. It harmonises the UML notation with a full software development approach, from project conception through to testing, deployment and enhancement. The author is an experienced tutor, who also practices as a UML professional, and the cases are based upon his own experience. The book is accompanied by a website that provides solutions to end-of-chapter exercises, a password-protected tutor's file of further exercises with solutions, slides to accompany the book, and other support material. This book is suitable for all undergraduate computing and information systems, or Software Engineering courses. First year students will find it particulalry helpful for modules on systems development or analysis and design. Provides a comprehensive review of the most recent advances in agent and Web service technologies. Provides an integrated view of the most recent contributions that support formation, integration, collaboration, and operation in virtual enterprise. Presents examples of applications of these technologies throughout various aspects of the virtual enterprise life cycle.

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