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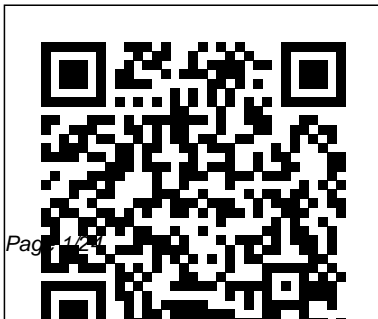
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Formal Methods for  
Computational Systems  
Biology Springer  
Several books on the market



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cover combinatorial techniques, but they offer just a limited perspective of the field, focusing on selected aspects without examining all approaches and integrated technologies. **Combinatorial Chemistry and Technologies: Methods and Applications** answers the demand for a complete overview of the field, covering all of the **FY-13 Progress Report on the Cleanup of Irradiated 130 G-U/L Uranyl Sulfate SHINE Target Solutions** CRC Press Embrace the Power of Executive Coaching As businesses become more complex, they tend to lean

on their high performers to fend off competitors, innovate, and pivot to unexplored markets. But who do these executives and leaders turn to when they need to refine their own skills? Executive coaches. In *The Art of Executive Coaching*, Dr. Nadine Greiner takes you behind the scenes with nine stories of executive coach Alice Well and her clients. Follow along as she lets you in on the secrets, tips, and tricks to unlocking the transformative performance results leaders need. With Alice's help, these individuals learn to adapt their personal leadership styles, illuminate their blind spots, and adopt new ways of relating and managing to benefit their teams

and organizations. But it's not all smooth sailing. Dr. Greiner shares Alice's bumps along the way, too. With this book, aspiring executive coaches will understand why coaching works so well—why certain techniques enable leaders in sales, tech, healthcare, and more to achieve dramatic results in a relatively short time. There is no one-size-fits-all approach to executive coaching. As these stories show, you must adapt your approach to meet the unique needs, traits, and habits of each leader. That's part of what makes the business of executive coaching thrilling—and increasingly in demand. No executive is perfect; there's always room for improvement. The skilled

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executive coach helps make this possible.

Modeling, Analysis, and Applications in Metaheuristic

Computing:

Advancements and

Trends Springer

Science & Business

Media

This book and its sister volume collect refereed papers presented at the 7th International Symposium on Neural Networks (ISNN 2010), held in Shanghai, China, June 6-9,

2010. Building on the success of the previous six successive ISNN symposiums, ISNN has become a well-established series of popular and high-quality conferences on neural computation and its applications. ISNN aims at providing a platform for scientists, researchers, engineers, as well as students to gather together to present and discuss the

latest progresses in neural networks, and applications in diverse areas. Nowadays, the field of neural networks has been fostered far beyond the traditional artificial neural networks. This year, ISNN 2010 received 591 submissions from more than 40 countries and regions. Based on rigorous reviews, 170 papers were selected for publication in

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the proceedings. The papers collected in the proceedings cover a broad spectrum of fields, ranging from neurophysiological experiments, neural modeling to extensions and applications of neural networks. We have organized the papers into two volumes based on their topics. The first volume, entitled "Advances in Neural Networks- ISNN 2010, Part 1," covers

the following topics: neurophysiological foundation, theory and models, learning and inference, neurodynamics. The second volume entitled "Advance in Neural Networks ISNN 2010, Part 2" covers the following five topics: SVM and kernel methods, vision and image, data mining and text analysis, BCI and brain imaging, and applications.

Rock and Water Pearson

## Education

From Federal Express's package tracking Website, to Amazon.com, netcentric computing has been evolving, slowly-but-surely, one solution at a time, since the early 1990s. Over the past year or so, the trickle has grown into a torrent of netcentric innovations of wider and wider scope, developed in companies around the globe. Now, a new enterprise computing paradigm has sprung into being. Until now, there has been no comprehensive netcentric

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model, clearly defined netcentric system architecture, or established set of guiding principles to help you gear up for this next stage in the evolution of enterprise computing. written by the experts at Andersen Consulting, Netcentric and Client/Server Computing: A Practical Guide, offers you this and more. Of course, a book can never take the place of experts who wrote it, but this revised, updated, and expanded edition of Andersen Consulting's noted guide is an important first step in

acquiring the knowledge and skills you need to bring netcentric capabilities into your organization. You'll learn from 13 acknowledged world experts what netcentric computing is, how it works, and how you can use it to provide your organization with an unstoppable competitive edge. Based upon their experiences with mission-critical netcentric implementations at 100 of the most successful business organizations on the planet, these experts explain how netcentric computing can help

you enable new business capabilities. Using dozens of fascinating case examples, they show you how to seamlessly integrate computing, communications, and knowledge resources in order to forge solid links among your company's employees, units, customers, suppliers, and partners, regardless of time, location, device, or content. And, they provide priceless advice and guidance on how to exploit the endless array of possibilities provided by netcentric computing to develop exciting new

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customer services, identify new markets, cut costs, engineer internal processes for improved business performance, and more. Netcentric and Client/Server Computing is divided into four, self-contained sections for ease of reference. Section I introduces you to basic netcentric principles and concepts, provides an overview of state-of-the-art in netcentric computing models, and develops a solid business case for netcentric computing. Section II acquaints you with the various technologies

involved and describes a comprehensive netcentric architecture. Section III is devoted to crucial analysis, design, and implementation issues, including design specifics for architectures, applications, and networks; rollout strategies; and ongoing management of distributed operations. Section IV explores emerging technologies and their likely impact on the future of netcentric computing. Artificial Intelligence and Symbolic Mathematical Computing Springer

Science & Business Media  
Microfluidics-based biochips combine electronics with biochemistry, providing access to new application areas in a wide variety of fields. Continued technological innovations are essential to assuring the future role of these chips in functional diversification in biotech, pharmaceuticals, and other industries. Revolutionary guidance on design, optimization, and testing of low-cost, disposable biochips

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**Microfluidic Biochips: Design Automation and Optimization** comprehensively covers the appropriate design tools and in-system automation methods that will help users adapt to new technology and progress in chip design and manufacturing. Based on results from several Duke University research projects on design automation for biochips, this book uses real-life bioassays as examples to lay out an automated design flow for creating

microfluidic biochips. It also develops solutions to the unique problems associated with that process. Highlights the design of the protein crystallization chip to illustrate the benefits of automated design flow. In addition to covering automated design, the authors provide a detailed methodology for the testing, use, and optimization of robust, cost-efficient, manufacturable digital microfluidic systems used in protein crystallization

and other areas. The invaluable tools and practices presented here will help readers to:

- Address optimization problems related to layout, synthesis, droplet routing, and testing for digital microfluidic biochips
- Make routing-aware, architectural-level design choices and defect-tolerant physical design decisions simultaneously
- Achieve the optimization goal, which includes minimizing time-to-response, chip area, and test complexity

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Effectively deal with practical issues such as defects, fabrication cost, physical constraints, and application-driven design. The authors present specialized pin-constrained design techniques for making biochips with a focus on cost and disposability. They also discuss chip testing to ensure dependability, which is key to optimizing safety-critical applications such as point-of-care medical diagnostics, on-chip DNA analysis, automated drug

discovery, air-quality monitoring, and food-safety testing. This book is an optimal reference for academic and industrial researchers in the areas of digital microfluidic biochips and electronic design automation.

[Advances in Computing Science - ASIAN'98](#)

Springer  
Comprehensive Membrane Science and Engineering, Four Volume Set covers all aspects of membrane science and technology

- from basic phenomena to the most advanced applications and future perspectives. Modern membrane engineering is critical to the development of process-intensification strategies and to the stimulation of industrial growth. The work presents researchers and industrial managers with an indispensable tool toward achieving these aims. Covers membrane science theory and economics,



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as well as applications ranging from chemical purification and natural gas enrichment to potable water. Includes contributions and case studies from internationally recognized experts and from up-and-coming researchers working in this multi-billion dollar field. Takes a unique, multidisciplinary approach that stimulates research in hybrid technologies for current (and future) life-

saving applications (artificial organs, drug delivery)  
Advances in Neural Networks -- ISNN 2010  
John Wiley & Sons  
The problem of exchanging data between different databases with different schemas is an area of immense importance. Consequently data exchange has been one of the most active research topics in databases over the past decade. Foundational questions related to data

exchange largely revolve around three key problems: how to build target solutions; how to answer queries over target solutions; and how to manipulate schema mappings themselves? The last question is also known under the name 'metadata management', since mappings represent metadata, rather than data in the database. In this book the authors summarize the key developments of a decade of research. Part I introduces the problem of

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data exchange via examples, both relational and XML; Part II deals with exchanging relational data; Part III focuses on exchanging XML data; and Part IV covers metadata management.

### Case-based Reasoning

John Wiley & Sons Experts from Andersen Consulting show you how to combine computing, communications, and knowledge to deliver a uniquely new-and entirely indispensable-competitive advantage. Lead, Follow, or get out

of the way Your company's ability to sustain a competitive advantage is in jeopardy. Your competitors can imitate and improve faster than ever. You need to find ways to help your company discover and deliver an astounding solution, control its costs, and move on the next astounding solution. Web-based computing is the vital technology enabler for today's most important business opportunities, like E-

Commerce. It is also the flexible foundation for future solutions. However, because of the complexities and difficulties it represents, it can be critical hurdle for IT shops and for an entire business. Enterprise Systems Architecture: Building Client/Server and Web-Based Systems is your guide through these complexities as you integrate your technology capabilities with your strategy, people, and processes to deliver

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astounding solutions. It Introduces you to basic principles and concepts, provides an overview of state-of-the-art in client/server and Web-based computing models, and develops a solid business case for implementation. Acquaints you with various technologies involved and describes a comprehensive network computing architecture. Details crucial analysis, design, and implementation issues, including design specifics

for architectures, applications, and network; rollout strategies; and ongoing management of distributed operations. Explores emerging technologies and their likely impact on the future of netcentric computing. Here you'll find detailed information on the architectures and frameworks for network-based computing strategies for designing and implementing solutions strategies and methods for security. It also provides a full

framework for testing applications, and in-depth dis  
Vapor Pressure of Zirconium Tetrachloride by Molecular Effusion CRC Press  
This book presents a set of 14 papers accompanying the lectures of leading researchers given at the 8th edition of the International School on Formal Methods for the Design of Computer, Communication and

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Software Systems, SFM 2008, held in Bertinoro, Italy in June 2008. SFM 2008 was devoted to formal techniques for computational systems biology and covered several aspects of the field, including computational models, calculi and logics for biological systems, and verification and simulation methods. The first part of this volume comprises nine papers based on regular lectures, the second

part of this volume comprises five papers based on talks given by people involved in the Italian BISCA research project on Bio-Inspired Systems and Calculi with Applications. Indirect and Direct Action of Heavy-particle Radiation on Glycine in Aqueous Solution Cambridge University Press This book summarizes recent Chinese discussions about Internet finance—a new financial business type resulting from an innovative thinking under the new normal—in the light of the

actual situation of China in transformation, especially the thirst of the grass-roots economy including medium-small and micro-sized enterprises as well as residents for financial services. The Internet finance is of great significance for optimizing and upgrading the industrial structure, improving the demand structure and reshaping the economic growth mode in China. This book will interest scholars, journalists, and businesspeople. Metaheuristics DeVorss & Company

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This book constitutes the refereed proceedings of the 10th International Conference on Parallel Problem Solving from Nature, PPSN 2008, held in Dortmund, Germany, in September 2008. The 114 revised full papers presented were carefully reviewed and selected from 206 submissions. The conference covers a wide range of topics, such as evolutionary computation, quantum

computation, molecular computation, neural computation, artificial life, swarm intelligence, artificial ant systems, artificial immune systems, self-organizing systems, emergent behaviors, and applications to real-world problems. The paper are organized in topical sections on formal theory, new techniques, experimental analysis, multiobjective optimization, hybrid

methods, and applications. User-Centred Requirements for Software Engineering Environments Springer Science & Business Media  
Your expert guide to building modern applications with Visual Basic 2010 Take control of Visual Basic 2010—for everything from basic Windows and web development to advanced multithreaded applications. Written by Visual Basic experts, this

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handbook provides an in-depth reference on language concepts and features, as well as scenario-based guidance for putting Visual Basic to work. It's ideal whether you 're creating new applications with Visual Basic 2010 or upgrading projects built with an earlier version of the language. Discover how to: Use Visual Basic 2010 for Windows Forms and Windows Presentation Foundation projects Build robust code using object-oriented programming

techniques, such as classes and types Work with events and delegates—and add your own events to custom classes Program arrays, collections, and other data structures in the Microsoft .NET Framework Solve problems quickly and easily using My namespace in Visual Basic Dive into Microsoft LINQ, including LINQ to XML and LINQ to Entities Tackle threading, multitasking, and multiprocessor

development and debugging  
Swarm Intelligence  
Elsevier  
This volume contains the papers, updated in some cases, presented at the first AISMC (Artificial Intelligence and Symbolic Mathematical Computations) conference, held in Karlsruhe, August 3-6, 1992. This was the first conference to be devoted to such a topic after a long period when SMC made no appearance in AI conferences, though it used to be welcome in the early days of AI. Some conferences were held

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recently on mathematics and AI, but none was directly comparable in scope to this conference. Because of the novelty of the domain, authors were given longer allocations of time than usual in which to present their work. As a result, extended and fruitful discussions followed each paper. The introductory chapter in this book, which was not presented during the conference, reflects in many ways the flavor of these discussions and aims to set out the framework for future activities in this domain of research. In addition to the introduction,

the volume contains 20 papers.

**Evolutionary Learning: Advances in Theories and Algorithms**  
Springer Nature

An integrated resource for greater happiness, **Rock & Water** will keep you moving peacefully through the unpredictable ups and downs of life. Just as a stream peacefully wanders through the natural world, over, around, or between rocks, **Rock and Water**

provides skills that can help you navigate through the obstacles of life. Author Scott Cooper introduces 18 basic skills for enhancing and sustaining happiness that will uphold and carry inner peace and happiness from one day to the next -- skills that are based on Scott Cooper's research in the fields of cognitive psychology and mindfulness/acceptance. Cognitive psychology is

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grounded in the theory that our happiness is strongly influenced by our thinking. It's not so much a situation that brings unhappiness, but rather our perception of a situation.

Mindfulness/acceptance practice is grounded in applying more nonreactive acceptance to daily living; particularly when it comes to daily dilemmas that we can't control. In this new book, Rock and Water

maintains the strong point of view that happiness is not enhanced by more talk about happiness, but by applying these conscious -hands-on- techniques that help us to cope with the inner sources of unhappiness---- this is the core of what cognitive and acceptance-based skills are all about.

The Telecommunications Handbook Cambridge University Press

A unified view of metaheuristics This book provides a complete background on metaheuristics and shows readers how to design and implement efficient algorithms to solve complex optimization problems across a diverse range of applications, from networking and bioinformatics to engineering design, routing, and scheduling. It presents the main design questions for all families of metaheuristics and clearly illustrates how to implement the algorithms under a software framework to



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reuse both the design and code. Throughout the book, the key search components of metaheuristics are considered as a toolbox for: Designing efficient metaheuristics (e.g. local search, tabu search, simulated annealing, evolutionary algorithms, particle swarm optimization, scatter search, ant colonies, bee colonies, artificial immune systems) for optimization problems Designing efficient metaheuristics for multi-objective optimization problems Designing hybrid, parallel, and distributed metaheuristics

Implementing metaheuristics on sequential and parallel machines Using many case studies and treating design and implementation independently, this book gives readers the skills necessary to solve large-scale optimization problems quickly and efficiently. It is a valuable reference for practicing engineers and researchers from diverse areas dealing with optimization or machine learning; and graduate students in computer science, operations research, control, engineering, business and management, and applied

mathematics.

Proceedings IGI Global Introduction to Information Systems, 9th Edition delivers an essential resource for undergraduate business majors seeking ways to harness information technology systems to succeed in their current or future jobs. The book assists readers in developing a foundational understanding of information systems and technology and apply it to common business problems. This

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International Adaptation as Big Data, Cloud Computing, Blockchain, and IoT are perceived and adopted across countries. New cases highlight key technology issues faced by organizations such as designing and implementing IT security policies, dealing with ethical dilemma of securing customer data, moving IT infrastructure to cloud, and identifying how AI can be used to improve the efficiency of business operations.

covers applications of the latest technologies with the addition of new cases from Europe, Middle East, Africa, Australia, and Asia-Pacific countries. It focuses on global business environment for students to understand the norms of using technology while operating on online platforms for exploring new avenues in different geographical locations. The book includes real business scenarios of how latest technologies such NetCentric and

## Client/Server Computing CRC Press

This book discusses uncertain threats, which are caused by unknown attacks based on unknown vulnerabilities or backdoors in the information system or control devices and software/hardware. Generalized robustness control architecture and the mimic defense mechanisms are presented in this book, which could change

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“ the easy-to-attack and difficult-to-defend game ” in cyberspace. The endogenous uncertain effects from the targets of the software/hardware based on this architecture can produce magic “ mimic defense fog ” , and suppress in a normalized mode random disturbances caused by physical or logic elements, as well as effects of non-probability disturbances brought by uncertain security threats. Although progress has been made in the current security defense theories in cyberspace and various types of security technologies have come into being, the effectiveness of such theories and technologies often depends on the scale of the prior knowledge of the attackers, on the part of the defender and on the acquired real-timing and accuracy regarding the attackers ’ behavior features and other information. Hence, there lacks an efficient active defense means to deal with uncertain security threats from the unknown. Even if the bottom-line defense technologies such as encrypted verification are adopted, the security of hardware/software products cannot be quantitatively designed,

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verified or measured. Due to the “ loose coupling ” relationship and border defense modes between the defender and the protected target, there exist insurmountable theoretical and technological challenges in the protection of the defender and the target against the utilization of internal vulnerabilities or backdoors, as well as in dealing with attack scenarios based on backdoor-activated collaboration from both inside and outside, no matter how augmented or accumulated protective measures are adopted. Therefore, it is urgent to jump out of the stereotyped thinking based on conventional defense theories and technologies, find new theories and methods to effectively reduce the utilization of vulnerabilities and backdoors of the targets without relying on the priori knowledge and feature information, and to develop new technological means to offset uncertain threats based on unknown vulnerabilities and backdoors from an innovative perspective. This book provides a solution both in theory and engineering implementation to the difficult problem of how to avoid the uncontrollability of product security caused by globalized marketing,

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COTS and non-trustworthy software/hardware sources. It has been proved that this revolutionary enabling technology has endowed software/hardware products in IT/ICT/CPS with endogenous security functions and has overturned the attack theories and methods based on hardware/software design defects or resident malicious

codes. This book is designed for educators, theoretical and technological researchers in cyber security and autonomous control and for business technicians who are engaged in the research on developing a new generation of software/hardware products by using endogenous security enabling technologies and for other product users. Postgraduates in IT/ICT/CPS/ICS will

discover that (as long as the law of “ structure determines the nature and architecture determines the security is properly used), the problem of software/hardware design defects or malicious code embedding will become the swelling of Achilles in the process of informationization and will no longer haunt Pandora ’ s box in cyberspace. Security and opening-up,

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advanced  
progressiveness and  
controllability seem to  
be contradictory, but  
there can be  
theoretically and  
technologically unified  
solutions to the  
problem.  
Handbook of Research  
on Modern Optimization  
Algorithms and  
Applications in  
Engineering and  
Economics Springer  
Science & Business  
Media  
This book constitutes

the refereed  
proceedings of the 4th  
Asian Computing  
Science Conference,  
ASIAN'98, held in  
Manila, The Philippines,  
in December 1998. The  
17 revised full papers  
presented were  
carefully reviewed and  
selected from a total of  
43 submissions. Also  
included are a few  
invited contributions.  
Among the topics  
covered are automated  
deduction, proof theory,  
rewriting systems,

program semantics,  
distributed processing,  
algorithms, and graph-  
theoretical aspects.  
日本オペレーションズ  
リサーチ学会論文誌 CRC  
Press  
Briefly, the methods of  
determining low vapor  
pressures have been  
reviewed. Emphasis  
has been placed on  
molecular effusion,  
including a theoretical  
discussion and the  
subsequent application  
of molecular beams to  
the determination of

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vapor pressure. The problems met in the preparation, purification and handling of anhydrous zirconium tetrachloride have been discussed. Vapor pressure measurements on zirconium tetrachloride have been made over a temperature range of fifty degrees, 70 deg C. to 120 deg C, . and the mean molar heat of sublimation for this temperature range has been calculated. The

value of 20.3 kcal per mole obtained is not unreasonable in view of the fact that values for the same quantity determined by other investigators in the temperature range of 239 deg C. to 346 deg C. is reported to be 24.4 kcal. per mole. Optimization Theory, Decision Making, and Operations Research Applications Springer This book constitutes the refereed proceedings of the 4th

Australian Conference on Artificial Life, ACAL 2009, held in Melbourne, Australia, in December 2009. The 27 revised full papers presented were carefully reviewed and selected from 60 submissions. Research in Alife covers the main areas of biological behaviour as a metaphor for computational models, computational models that reproduce/duplicate a biological behaviour,

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and computational models to solve biological problems. Thus, Alife features analyses and understanding of life and nature and helps modeling biological systems or solving biological problems. The papers are organized in topical sections on alife art, game theory, evolution, complex systems, biological systems, social modelling, swarm intelligence, and heuristics.