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The primary purpose of this book is to present information about selected topics on the interactions and applications of fuzzy + neural. Most of the discussion centers around our own research in these areas. Fuzzy + neural can mean many things: (1) approximations between fuzzy systems and neural nets (Chapter 4); (2) building hybrid neural nets to equal fuzzy systems (Chapter 5); (3) using neural nets to solve fuzzy

problems (Chapter 6); (4) approximations between fuzzy neural nets and other fuzzy systems (Chapter 8); (5) constructing hybrid fuzzy neural nets for certain fuzzy systems (Chapters 9, 10); or (6) computing with words (Chapter 11). This book is not intended to be used primarily as a text book for a course in fuzzy + neural because we have not included problems at the end of each chapter, we have omitted most proofs (given in the references), and we have given very few references. We wanted to keep the mathematical prerequisites to a minimum so all longer, involved, proofs were

omitted. Elementary differential calculus is the only prerequisite needed since we do mention partial derivatives once or twice. Discover the importance of financial accounting in creating a successful business and prosperous society with Warren/Jones' CORPORATE FINANCIAL ACCOUNTING, 16E. This best-selling book clearly presents core financial accounting concepts within a meaningful, larger context using engaging learning features that ensure a relevant, innovative learning experience. The authors demonstrate how accounting is more

than just data or black-and-white rules. Updated content addresses the latest development and tools in corporate accounting today -- from using data analytics effectively to understanding the impact of discounts and sales in retail accounting. Numerous practice opportunities ensure you have mastered and can apply key financial accounting principles. You prepare for corporate and career success as you learn how business professionals use key accounting information to make critical business decisions. Important Notice: Media content referenced within

the product description or the product text may not be available in the ebook version. Cisco IOS 12.0 Bridging and IBM Network Solutions contains configuration scenarios and command reference information that demonstrate bridging and IBM networking options. Written for network administrators, this guide explores transparent and source-route transparent bridging, Source-Route Bridging (SRB), data link switching plus (DLSw+), serial tunnel and block serial tunnel, SDLC and LLC2 parameters, and advanced peer-to-peer networking. The Microsoft .NET

initiative is the future of e-commerce - making it possible for organisations to build a secure, reliable e-commerce infrastructure. This is the first book to outline the capabilities of SQL Server 2000, one of the key components of .NET. SQL Server 2000 introduces powerful new data mining functionality designed specifically to capture and process customer profiles and to predict future buying patterns on e-commerce sites. Designing SQL Server 2000 Databases addresses the needs of IT professionals migrating from the

popular SQL 7 databases to the new SQL 2000, as well as those who are starting from scratch. Covers all key features of SQL Server 2000 including; XML support, enhanced data-mining capabilities and integration with Windows 2000. While there are many books available on SQL 7 - this is the first to be announced for SQL 2000. Free ongoing customer support and information upgrades. For more than 20 years, Network World has been the premier provider of information, intelligence and insight for network and IT executives responsible for the digital nervous systems of large

organizations. Readers are responsible for designing, implementing and managing the voice, data and video systems their companies use to support everything from business critical applications to employee collaboration and electronic commerce. This book presents a collection of original research papers addressing the relationship between information systems (IS) and innovation. "Open", "Smart" and "Network" are three keywords that are currently guiding information systems (IS) innovation, enhancing IS potentialities and their ability to

support decision-making processes. The book discusses the relevance of these three new concepts in connection with technological and organizational innovations (i.e. cloud, smart technologies and networking), and the role they play in the development of accounting and management information systems. The book's primary aim is to investigate how these innovations could influence information systems (with a particular focus on accounting and management information systems) by enhancing their information potentialities and improving accounting

methodologies, performance measurement systems, data management, information systems architectures, and external and internal reporting. The book is based on a selection of the best papers—original double-blind reviewed contributions—presented at the 2016 Annual Conference of the Italian Chapter of the Association for Information Systems (AIS). This book gives developers the practical solutions they need for using ASP .NET to develop real-life applications.- The examples and format have proven to be highly successful in the

author's training classes for professional developers. - Goes beyond teaching the basic concepts to showing how to apply them to solving everyday programming problems. - Fully covers version 1.1 of ASP .NET. Following on from Book 1, this student book covers the various options from BTEC National Business to ensure that students have almost everything they need to complete their Certificate or Diploma. Abstracts for Dec. 1954- issued in the Agricultural Research Service's series ARS-41. For more than 20 years, Network World has been the premier provider of

information, intelligence and insight for network and IT executives responsible for the digital nervous systems of large organizations. Readers are responsible for designing, implementing and managing the voice, data and video systems their companies use to support everything from business critical applications to employee collaboration and electronic commerce. For more than 20 years, Network World has been the premier provider of information, intelligence and insight for network and IT executives responsible for the digital nervous systems of large

organizations. Readers are responsible for designing, implementing and managing the voice, data and video systems their companies use to support everything from business critical applications to employee collaboration and electronic commerce. Professional C# 2008 starts by reviewing the overall architecture of .NET in Chapter 1 in order to give you the background you need to be able to write managed code. After that the book is divided into a number of sections that cover both the C# language and its application in a variety of areas. Establish the strong

foundation in the accounting fundamentals needed to succeed with Warren/Jones/Taylor's FINANCIAL AND MANAGERIAL ACCOUNTING, 15E. Memorable business examples throughout this leading book provide a meaningful context as they demonstrate how content from each chapter fits into the big accounting picture. The authors clearly connect fundamental accounting concepts to challenges and triumphs in real businesses today. For instance, each chapter begins with a real-world company opener that is linked to

applicable content throughout the chapter. In addition, new Certified Management Accountant (CMA) exam questions prepare readers for professional success, while Pathways Challenges help hone critical-thinking skills. Trust FINANCIAL AND MANAGERIAL ACCOUNTING to master the accounting concepts most important in business today. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version. Expert SharePoint 2010 Practices is a valuable

compendium of best practices, tips, and secrets straight from the most knowledgeable SharePoint gurus in the industry. Learn from the experts as you dive into topics like multitenancy, solution deployment, business intelligence, and administration. Our team of carefully chosen contributors, most with Microsoft's Most Valuable Professional (MVP) designation bestowed upon them, shares with you the secrets and practices that have brought them success in a wide variety of SharePoint scenarios. Each contributor is passionate about the power of

SharePoint and wants to help you leverage the capabilities of the platform in your business—but in the proper way. Go beyond procedures and manuals, and benefit from hundreds of years of combined experience, which the authors of Expert SharePoint 2010 Practices provide in these pages. Learn from the masters and take control of SharePoint 2010 like you never have before with Expert SharePoint 2010 Practices! For more than 20 years, Network World has been the premier provider of information, intelligence and insight for network and IT executives responsible for the

digital nervous systems of large organizations. Readers are responsible for designing, implementing and managing the voice, data and video systems their companies use to support everything from business critical applications to employee collaboration and electronic commerce. The definitive practical guide to understanding and solving seepage and drainage problems. Now in its third edition, this unique resource offers simple methods for analyzing and designing seepage and groundwater control systems for all major types of civil engineering works.

Complete with solid coverage of seepage principles and flow net construction, this book is an invaluable aid to engineering professionals and students in mastering this vital subject. Seepage, Drainage, and Flow Nets, Third Edition, features: \* Clear explanations of Darcy's law, permeability, and other core concepts \* Seepage analyses and drainage designs for earth dams, levees, foundations, earth slopes, roads, airfields, streets, parking lots, and more \* Information on contemporary topics, including "wick" drains, "fin" drains, and the protection of groundwaters from

contamination \* An assessment of computer solutions to seepage and drainage problems \* Over 100 examples of flow nets, ranging from the simple to the complex -- accompanied by step-by-step instructions \* Useful chapter references to facilitate further study. IBM WebSphere® Message Broker is a lightweight, advanced enterprise service bus (ESB) that provides a broad range of integration capabilities that enable companies to rapidly integrate internal applications and connect to partner applications. Messages from business

applications can be transformed, augmented and routed to other business applications. The types and complexity of the integration required will vary by company, application types, and a number of other factors. Processing logic in WebSphere Message Broker is implemented using message flows. Through message flows, messages from business applications can be transformed, augmented, and routed to other business applications. Message flows are created by connecting nodes together. A wide selection of built-in nodes are provided



with WebSphere Message Broker. These nodes perform tasks that are associated with message routing, transformation, and enrichment. Message flows are created and tested using the Message Broker Toolkit, a sophisticated, easy-to-use programming tool that provides a full range of programming aids. This IBM® Redbooks® publication focuses on two specific integration requirements that apply to many midmarket companies. The first is the ability to use WebSphere Message Broker to integrate Microsoft.NET applications into a broader

connectivity solution. WebSphere Message Broker V8 introduces the ability to integrate with existing Microsoft .NET Framework applications. A .NET assembly can be called from within a message flow and the WebSphere Message Broker runtime can host and run .NET code. Solutions explored in this book cover connectivity to applications using Windows Communications Framework (WCF), Microsoft Message Queuing, Microsoft Dynamics CRM, and other Microsoft applications. The second is the ability to integrate WebSphere Message Broker

with file transfer networks, specifically with WebSphere MQ File Transfer Edition and IBM Sterling Connect Direct. bull; Borland-authorized introduction to C#Builder, the first full-featured alternative to Microsoft Visual Studio .NET. bull; C#Builder offers special features designed to assist the more than 3 million Delphi and JBuilder users with the transition to .NET - without leaving the Borland tools they've invested in for years. bull; C#Builder Kick Start is fully supported by Borland and developed with their cooperation to be the book of

choice for C#Builder. "This book consists of a series of high-level discussions on technical and managerial issues related to object-oriented development"-- Provided by publisher. This book presents, in extraordinary detail, sixteen landmark cases that profoundly affect the protection of intellectual property rights in China. Written by six prominent Chinese legal scholars and jurists - including judges who themselves participated in these decisions - each case is fully described and analysed: the parties and their representatives, the basic facts, the

facts ascertained by the court, the evidence presented by plaintiffs and defendants, the judges' opinions with their arguments and reasoning, the unanimous conclusions, and the judgment, along with a wealth of deeply informed comment. Among the questions raised by these cases are the following: Is a website within the definition of a 'work' in copyright law, and thus protected? How should the acts of uploading and downloading of works from the Internet be classified? Can the concept of torts be applied in the Internet context? What is the legal liability of an

Internet service provider? How is a defendant's 'unreasonable conduct' to be determined? Who is responsible for the determination of 'artistic value' - e.g., of clothing designs? What evidence must be presented to serve as sufficient proof that a domain name is a party's own creation? In what a manner should packaging and decoration be regarded? How should the 'author' in copyright conflict cases be identified? How should an unauthorized web link be judged? When do separate components assembled to create a product enjoy copyright protection? How should damages be

determined? An introductory essay provides a detailed overview of the characteristics of China's intellectual property law as it continues to develop, with attention to such factors as the specific laws enacted, the various courts and tribunals to which IP cases are assigned, the progress of a case, starting from filing to winding up, regulations, reform programs, and rules of evidence. The editor puts forward his own proposals - particularly in light of the so-called 'interfering factors' - on reform of civil trial style in intellectual property cases. It is difficult to overstate the value

of this book to anyone involved in business dealings in China. With its authoritative expertise, abundant detail, and thorough elucidation of the salient features of developing IP law and practice in China, it will serve interested parties for years to come. This comprehensive resource demonstrates how wireless sensor network (WSN) systems, a key element of the Internet of Things (IoT), are designed and evaluated to solve problems associated with autonomous sensing systems. Functional blocks that form WSN-based systems are described, chapter by chapter,

providing the reader with a progressive learning path through all aspects of designing remote sensing capabilities using a WSN-based system. The development and a full description of fundamental performance equations and technological solutions required by these real-time systems are included. This book explores the objectives and goals associated with tactical intelligence, surveillance, and reconnaissance (T-ISR) missions. Readers gain insight into the correlation between fine-grained sensor resolution associated with WSN-based system

complexities and the difficult requirements associated with T-ISR missions. The book demonstrates how to wield emergent technologies to arrive at reliable and robust wireless networking for T-ISR and associated tasks using low-cost, low-power persistent sensor nodes. WSN is broken down into constituent subsystems, key components, functional descriptions, and attendant mathematical descriptions. This resource explains how the design of each element can be approached and successfully integrated into a viable and responsive sensor

system that is autonomous, adaptable to mission objectives and environments, and deployable worldwide. It also provides examples of what not to do based on lessons learned from past (and current) systems that failed to provide end users with the required information. Chapters are linked together, in order of system assembly (concepts to operation), to provide the reader with a full toolset that can help deliver versatility in design decisions, solutions, and understanding of such systems, end to end. Attention in the AI safety community has increasingly started

to include strategic considerations of coordination between relevant actors in the field of AI and AI safety, in addition to the steadily growing work on the technical considerations of building safe AI systems. This shift has several reasons: Multiplier effects, pragmatism, and urgency. Given the benefits of coordination between those working towards safe superintelligence, this book surveys promising research in this emerging field regarding AI safety. On a meta-level, the hope is that this book can serve as a map to inform those working in the field

of AI coordination about other promising efforts. While this book focuses on AI safety coordination, coordination is important to most other known existential risks (e.g., biotechnology risks), and future, human-made existential risks. Thus, while most coordination strategies in this book are specific to superintelligence, we hope that some insights yield “collateral benefits” for the reduction of other existential risks, by creating an overall civilizational framework that increases robustness, resiliency, and antifragility. Mastering Visual Studio .NET

provides you, as an experienced programmer, with all the information needed to get the most out of the latest and greatest development tool from Microsoft®. It doesn't matter if you're an MFC, C++, STL, ATL, COM, Win32, Visual Basic, C#, HTML, XML, ASP.NET, database, web application, Web service, NT service, stand-alone client, or component programmer targeting Windows® or one of the Windows variants (i.e. Windows CE or the PocketPC) -- this is the book that will help you master the toolkit. Written by experienced developers and trainers John Flanders, Ian

Griffiths, and Chris Sells, Mastering Visual Studio .NET begins with fundamental information about maximizing the power of Visual Studio .NET as it comes out of the box, including the following topics: projects and solutions files and the various file editors debugging web projects database projects setup projects To experience the full spectrum of functionality and extensibility, Mastering Visual Studio .NET provides you with the practical depth and detail needed to best put these features to work. The second section of the book is about extending VS.NET to suit your specific

needs: integrating controls and components with VS.NET the VS.NET automation object model macros and add-ins custom wizards the Visual Studio Integration Program (VSIP) If you're serious about using the VS.NET toolkit, you'll want a book of this magnitude close by. Mastering Visual Studio .NET will take you beyond what you'll read in the standard documentation by offering hints and recommendations that the authors and the community at large have found to be useful after many years of experience. Written by a Microsoft Certified Systems Engineer and a Certified Solutions

Developer Based on the needs of the BizTalk developer community Includes examples of real-world implementations A practical, step-by-step guide to using Microsoft's AutoML technology on the Azure Machine Learning service for developers and data scientists working with the Python programming language Key Features>Create, deploy, productionalize, and scale automated machine learning solutions on Microsoft AzureImprove the accuracy of your ML models through automatic data featurization and model trainingIncrease productivity in your organization by

using artificial intelligence to solve common problemsBook Description Automated Machine Learning with Microsoft Azure will teach you how to build high-performing, accurate machine learning models in record time. It will equip you with the knowledge and skills to easily harness the power of artificial intelligence and increase the productivity and profitability of your business. Guided user interfaces (GUIs) enable both novices and seasoned data scientists to easily train and deploy machine learning solutions to production. Using a careful, step-by-

step approach, this book will teach you how to use Azure AutoML with a GUI as well as the AzureML Python software development kit (SDK). First, you'll learn how to prepare data, train models, and register them to your Azure Machine Learning workspace. You'll then discover how to take those models and use them to create both automated batch solutions using machine learning pipelines and real-time scoring solutions using Azure Kubernetes Service (AKS). Finally, you will be able to use AutoML on your own data to not only train regression, classification, and

forecasting models but also use them to solve a wide variety of business problems. By the end of this Azure book, you'll be able to show your business partners exactly how your ML models are making predictions through automatically generated charts and graphs, earning their trust and respect. What you will learn Understand how to train classification, regression, and forecasting ML algorithms with Azure AutoML Prepare data for Azure AutoML to ensure smooth model training and deployment Adjust AutoML configuration

settings to make your models as accurate as possible Determine when to use a batch-scoring solution versus a real-time scoring solution Productionalize your AutoML and discover how to quickly deliver value Create real-time scoring solutions with AutoML and Azure Kubernetes Service Train a large number of AutoML models at once using the AzureML Python SDK Who this book is for Data scientists, aspiring data scientists, machine learning engineers, or anyone interested in applying artificial intelligence or machine learning in their business will find this machine

learning book useful. You need to have beginner-level knowledge of artificial intelligence and a technical background in computer science, statistics, or information technology before getting started. Familiarity with Python will help you implement the more advanced features found in the chapters, but even data analysts and SQL experts will be able to train ML models after finishing this book. Learn about the responsibilities of a .NET solution architect and explore solution architecture principles, DevOps solutions, and design techniques and standards with

hands-on examples of design patterns Key Features Find out what are the essential personality traits and responsibilities of a solution architect Become well-versed with architecture principles and modern design patterns with hands-on examples Design modern web solutions and make the most of Azure DevOps to automate your development life cycle Book Description Understanding solution architecture is a must to build and integrate robust systems to meet your client's needs. This makes it crucial for a professional .NET

software engineer to learn the key skills of a .NET solution architect to create a unique digital journey and build solutions for a wide range of industries, from strategy and design to implementation. With this handbook, developers working with the .NET technology will be able to put their knowledge to work. The book takes a hands-on approach to help you become an effective solution architect. You'll start by learning the principles of the software development life cycle (SDLC), the roles and responsibilities of a .NET solution architect, and what makes a great .NET solution architect. As you make



progress through the chapters, you'll understand the principles of solution architecture and how to design a solution, and explore designing layers and microservices. You'll complete your learning journey by uncovering modern design patterns and techniques for designing and building digital solutions. By the end of this book, you'll have learned how to architect your modern web solutions with ASP.NET Core and Microsoft Azure and be ready to automate your development life cycle with Azure DevOps. What you will learn

Understand the role and core responsibilities of a .NET solution architect Study popular UML (Unified Modeling Language) diagrams for solution architecture Work with modern design patterns with the help of hands-on examples Become familiar with microservices and designing layers Discover how to design modern web solutions Automate your development life cycle with Azure DevOps Who this book is for This book is for intermediate and advanced .NET developers and software engineers who want to advance their careers and expand their knowledge of

solution architecture and design principles. Beginner or intermediate-level solution architects looking for tips and tricks to build large-scale .NET solutions will find this book useful. For more than 20 years, Network World has been the premier provider of information, intelligence and insight for network and IT executives responsible for the digital nervous systems of large organizations. Readers are responsible for designing, implementing and managing the voice, data and video systems their companies use to support everything from business critical applications

to employee collaboration and electronic commerce. Develop the strong foundation in accounting to prepare you for future study and success in today's business world with Warren/Jonick/Schneider's leading ACCOUNTING, 28E. This edition connects accounting concepts to the bigger picture as chapter-opening schemas demonstrate how each chapter's content fits within the overall framework of the book. The authors also clearly illustrate the impact of transactions on the accounting equation. This book's hallmark

presentation of the accounting cycle provides an unmatched foundation for later chapters as well as upcoming coursework and careers in business. Streamlined content and improved learning features throughout this edition ensure you have a solid understanding of today's accounting and the specific tools to succeed. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version. A compendium of best practices and implementation wisdom, Pro BizTalk 2009 is a revision of the highly-successful

and best-selling Pro BizTalk 2006. The book has been fully updated to cover developments in BizTalk 2009. You'll find chapters on topics such as developing WCF-compliant adapters using the WCF LOB adapter SDK, connecting BizTalk to IBM mainframe line-of-business applications and data using the Host Integration Server adapter, and riding the Enterprise Service Bus. All other chapters in the book have been updated to reflect developments in BizTalk 2009. Pro BizTalk 2009 is based upon real feedback from BizTalk developers. It is written by recognized experts George Dunphy and Sergei Moukhitski,

backed by a team of top-notch co-authors. The book is a labor of love in which the authors share their experiences and expertise to teach you the art of creating a BizTalk solution using the right tools from the BizTalk 2009 toolbox. Fully updated to cover developments in BizTalk 2009 Focuses on the art of creating a BizTalk solution by helping readers choose the right tool from the BizTalk toolbox for the task at hand Based upon the real-life experience of authors with many years of practice implementing BizTalk solutions for large enterprises

Uncertainty has been of concern to engineers, managers and . scientists for many centuries. In management sciences there have existed definitions of uncertainty in a rather narrow sense since the beginning of this century. In engineering and uncertainty has for a long time been considered as in sciences, however, synonymous with random, stochastic, statistic, or probabilistic. Only since the early sixties views on uncertainty have ~ecome more heterogeneous and more tools to model uncertainty than statistics have been proposed by several scientists. The problem of

modeling uncertainty adequately has become more important the more complex systems have become, the faster the scientific and engineering world develops, and the more important, but also more difficult, forecasting of future states of systems have become. The first question one should probably ask is whether uncertainty is a phenomenon, a feature of real world systems, a state of mind or a label for a situation in which a human being wants to make statements about phenomena, i. e. , reality, models, and theories, respectively. One cart also ask

whether uncertainty is an objective fact or just a subjective impression which is closely related to individual persons. Whether uncertainty is an objective feature of physical real systems seems to be a philosophical question. This shall not be answered in this volume. Offers information by linking developments on home ownership with developments in the financial and labor markets in the context of globalization. This book is the conclusion of a body of research that started with a workshop held at the University of York in October 2000, and which resulted in the book

Globalisation and Home Ownership. This volume constitutes the proceedings of the 7th International Conference on Simulated Evolution and Learning, SEAL 2008, held in Melbourne, Australia, during December 7-10, 2008. The 65 papers presented were carefully reviewed and selected from 140 submissions. The topics covered are evolutionary learning; evolutionary optimisation; hybrid learning; adaptive systems; theoretical issues in evolutionary computation; and real-world applications of evolutionary computation techniques. Think

Microsoft .NET will provide the "big .NET picture" to help both developers and IT decision-makers decide whether they should explore .NET further. It is not a how-to book and isn't code-laden. The reader will take away a deep understanding of what .NET is and an understanding of the .NET Framework. This knowledge will provide an orientation and give them enough information to make a sound decision on whether or not they want to use .NET in their IT department or development future. Bart A. DePetrillo is the co-founder of Newtelligence AG, a German company specializing in

application development, consulting, and training for .NET technologies. He is also the author of technical educational materials for Microsoft and the ".NET Initiative." His company has presented at the Microsoft .NET Technical Summit, Systems 2000 Conference, SIGS/101 Component Development 2000, and Microsoft TechEd 2000. In modern society services and support provided by computer-based systems have become ubiquitous and indeed have started to fundamentally alter the way people conduct their business. Moreover, it has

become apparent that among the great variety of computer technologies available to potential users a crucial role will be played by concurrent systems. The reason is that many commonly occurring phenomena and computer applications are highly concurrent : typical examples include control systems, computer networks, digital hardware, business computing, and multimedia systems. Such systems are characterised by ever increasing complexity, which results when large numbers of concurrently active components interact. This has

been recognised and addressed within the computing science community. In particular, several formal models of concurrent systems have been proposed, studied, and applied in practice. This book brings together two of the most widely used formalisms for describing and analysing concurrent systems: Petri nets and process algebras. On the one hand , process algebras allow one to specify and reason about the design of complex concurrent computing systems by means of algebraic operators corresponding to common programming constructs. Petri nets, on the other

hand, provide a graphical representation of such systems and an additional means of verifying their correctness efficiently, as well as a way of expressing properties related to causality and concurrency in system behaviour. \* This book surveys the different technologies and servers that are available for you to use with ASP.NET and maps the "Quality Attributes" of Application Architecture for these different servers. \* The author has been using ASP.NET since the technology preview of the .NET 1.0 Framework. He has put scores of ASP.NET

applications into production for large enterprise companies and universities. \* This book is written with today's technology, with an eye on the future.

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