

Implementasi Metode Fuzzy Inference System Fis Tsukamoto

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Essentials of Research Design and Methodology - Geoffrey R. Marczyk
2010-06-03

Master the essential skills for designing and conducting a successful research project Essentials of Research Design and Methodology contains practical information on how to design and conduct scientific research in the behavioral and social sciences. This accessible guide covers basic to advanced concepts in a clear, concrete, and readable style. The text offers students and practitioners in the behavioral sciences and related disciplines important insights into identifying research topics, variables, and methodological approaches. Data collection and assessment strategies, interpretation methods, and important ethical considerations also receive significant coverage in this user-friendly guide. Essentials of Research Design and Methodology is the only available resource to condense the wide-ranging topics of the field into a concise, accessible format for handy and quick reference. As part of the Essentials of Behavioral Science series, this book offers a thorough review of the most relevant topics in research design and methodology. Each concise chapter features numerous callout boxes highlighting key concepts, bulleted points, and extensive illustrative

material, as well as "Test Yourself" questions that help you gauge and reinforce your grasp of the information covered.

Analisis Keputusan - Winnie Septiani
2022-03-21

Pengambilan keputusan merupakan langkah awal dari siklus proses manajerial. Pengambilan keputusan akan menentukan apa yang akan terjadi di masa depan. Memang sulit untuk mengetahui apa yang akan terjadi di masa depan serta dampak dari keputusan yang diambil. Bahkan seorang Herbert Simon penerima hadiah nobel sekalipun, menyatakan bahwa ada kemungkinan 99 % keputusan yang diambil adalah salah, namun jangan khawatir karena masih tersisa 1 % kemungkinan yang dapat dijadikan alat untuk mengkoreksi keputusan yang salah tersebut. Beranilah mengambil keputusan, sekali kita mengambil keputusan percayalah jalan baru akan terbuka lebar. Sebagaimana dikatakan oleh Ralph Waldo Emerson "Once you make a decision, the universe conspires to make it happen", seperti kutipan pada halaman judul buku ini.

Fuzzy Logic - John Yen 1999
Providing equal emphasis on theoretical foundations and practical issues, this book features fuzzy logic concepts and techniques in intelligent systems, control, and information technology. Uses Fuzzy Logic Toolbox MATLAB to demonstrate

exemplar applications and to develop hands-on exercises.

Interactive Multimedia Learning - Johannes Konert 2014-09-05

This book introduces new concepts and mechanisms regarding the usage of both social media interactions and artifacts for peer education in digital educational games. Digital games in general, and digital educational games in particular, represent an area with a high potential for interdisciplinary innovation, not only from an information technology standpoint, but also from social science, psychological and didactic perspectives. This book presents an interdisciplinary approach to educational games, which is centered on information technology and aims at: (1) improving digital management by focusing on the exchange of learning outcomes and solution assessment in a peer-to-peer network of learners; (2) achieving digital implementation by using forms of interaction to change the course of educational games; and (3) providing digital support by fostering group-formation processes in educational situations to increase both the effects of educational games and knowledge exchange at the individual level. In addition to a systematic analysis of the relationship between software architecture, educational games and social media applications, the book also presents the implemented IT systems' architectures and algorithmic solutions as well as the resulting applicable evaluation findings from the field of interactive multimedia learning.

Neuro-fuzzy Modeling in Engineering Geology - M. Alvarez Grima 2000-01-01

This text focuses on the use of rule based-fuzzy modelling and neural networks methods in conjunction with conventional statistical techniques. The book can then show how a workable and realistic model can be constructed that integrates theoretical knowledge with field observations and practical know-how. *Introduction to Neural Networks with Java* - Jeff Heaton 2005

In addition to showing the programmer how to construct Neural Networks, the

book discusses the Java Object Oriented Neural Engine (JOONE), a free open source Java neural engine. (Computers)

Introduction to Video Game Design and Development - Joseph Saulter 2007

Fuzzy Expert Systems - Abraham Kandel 1991-11-12

Until recently, fuzzy logic was the intellectual plaything of a handful of researchers. Now it is being used to enhance the power of intelligent systems, as well as improve the performance and reduce the cost of intelligent and "smart" products appearing in the commercial market. Fuzzy Expert Systems focuses primarily on the theory of fuzzy expert systems and their applications in science and engineering. In doing so, it provides the first comprehensive study of "soft" expert systems and applications for those systems. Topics covered include general purpose fuzzy expert systems, processing imperfect information using structured frameworks, the fuzzy linguistic inference network generator, fuzzy associative memories, the role of approximate reasoning in medical expert systems, MILORD (a fuzzy expert systems shell), and COMAX (an autonomous fuzzy expert system for tactical communications networks. Fuzzy Expert Systems provides an invaluable reference resource for researchers and students in artificial intelligence (AI) and approximate reasoning (AR), as well as for other researchers looking for methods to apply similar tools in their own designs of intelligent systems.

Fundamentals of Artificial Neural Networks - Mohamad H. Hassoun 1995

A systematic account of artificial neural network paradigms that identifies fundamental concepts and major methodologies. Important results are integrated into the text in order to explain a wide range of existing empirical observations and commonly used heuristics.

Multimedia Signal Processing - Saeed V. Vaseghi 2007-10-22

Multimedia Signal Processing is a comprehensive and accessible text to the theory and applications of

digital signal processing (DSP). The applications of DSP are pervasive and include multimedia systems, cellular communication, adaptive network management, radar, pattern recognition, medical signal processing, financial data forecasting, artificial intelligence, decision making, control systems and search engines. This book is organised in to three major parts making it a coherent and structured presentation of the theory and applications of digital signal processing. A range of important topics are covered in basic signal processing, model-based statistical signal processing and their applications. Part 1: Basic Digital Signal Processing gives an introduction to the topic, discussing sampling and quantization, Fourier analysis and synthesis, Z-transform, and digital filters. Part 2: Model-based Signal Processing covers probability and information models, Bayesian inference, Wiener filter, adaptive filters, linear prediction hidden Markov models and independent component analysis. Part 3: Applications of Signal Processing in Speech, Music and Telecommunications explains the topics of speech and music processing, echo cancellation, deconvolution and channel equalization, and mobile communication signal processing. Covers music signal processing, explains the anatomy and psychoacoustics of hearing and the design of MP3 music coder Examines speech processing technology including speech models, speech coding for mobile phones and speech recognition Covers single-input and multiple-inputs denoising methods, bandwidth extension and the recovery of lost speech packets in applications such as voice over IP (VoIP) Illustrated throughout, including numerous solved problems, Matlab experiments and demonstrations Companion website features Matlab and C++ programs with electronic copies of all figures. This book is ideal for researchers, postgraduates and senior undergraduates in the fields of digital signal processing, telecommunications and statistical

data analysis. It will also be a valuable text to professional engineers in telecommunications and audio and signal processing industries.

The Essence of Research Methodology - Jan Jonker 2010-03-10

Methodology is the field which is indisputably complex. In the academic world, it is often said to be important, yet in everyday academic practice, it is not always treated accordingly. In teaching, methodology is often a mandatory course. Usually, it consists of learning how to adopt several common approaches when doing research, and how to conceive a research design (often leading to a survey). This usually leads to collecting data on a modest scale and - when the opportunity arises - analysing the data with the help of some statistics. Ask the students of their opinion at the end of such a course and they tend to heave a deep sigh of relief and say, "I have got through it." Then their real courses start again, in which methodology often does not play a role at all. We are of the opinion that writing-off methodology in this way is a real pity. It ignores the valuable role that methodology should play in academic teaching as a whole. Here, methodology is presented as a form of thinking and acting that, while obviously entailing research work, can also include the design and change of organisations. This broad approach has been purposefully chosen, as it is almost obvious from research and graduation projects that the students do not really have a clue what methodology involves and, therefore, wasting their time by producing work that has a little quality.

Time-saver Standards for Building Types - Joseph De Chiara 1980

Motivational Teaching - Nick Thorner 2017-02-14

Motivational Teaching provides a clear overview of the many factors that affect learner motivation and connects each of them to innovative teaching ideas and strategies. • Features over 100 tried and tested teaching ideas, underpinned by the

latest research into learner motivation. • Explores how motivation to learn works both on an individual level and within the classroom environment. • Provides insights to enhance motivation through key teaching processes, from choosing materials and designing tasks to closing lessons and giving feedback. • Investigates how teachers can raise learner motivation across a range of ages, abilities, and backgrounds.

A Course in Fuzzy Systems and Control
- Li-Xin Wang 1997

Textbook

Sustainable Air Pollution Management

- Ramesha Chandrappa 2015-08-21

This work is intended as a textbook on the theory and practice of sustainable air pollution management. The book discusses the fundamental aspects of traditional air pollution topics as well as some more advanced topics (such as atmospheric brown cloud, trans-boundary movement of air pollutants, air transportation of radioactive material, biological air pollutants, etc.). Though much has been written about theory of Air Pollution Management, it is still not practiced in society for a variety of reasons. Having worked at the grass roots level and travelled extensively, the authors have captured useful, cost-effective and successfully implemented practices with their cameras and notebooks. The non-technical issues that are often seen as a hindrance to adopting sustainable solutions due to political, legal and social factors are also addressed to enable readers to understand a different dimension of social problems. Topics covered include selecting a separation process, process description, materials selection logic, implementation etc. Theory, design and operation specifications are also included for each air pollution management option. The book is an excellent guide for those readers looking to understand and practice sustainable air pollution management. Readers also learn how energy-efficient and cost-effective methods can be successfully used to reduce the production of contaminants, providing cleaner air.

Flex - Annie Auerbach 2021-02-23

Seasoned trends forecaster and consultant Annie Auerbach takes a fresh look at women's professional lives today by rethinking the 9 to 5 in this "no-nonsense guide to thinking and behaving more flexibly in order to have a happier, better, less frenetic life" (Marie Claire)—now widely available for American readers and updated with an author note addressing work in the post-Covid age. The recent coronavirus outbreak has proven what Annie Auerbach has long championed: working 9-5 in an office doesn't work for most us. It's time to change the rules. We can be efficient and productive when we're allowed the freedom of flexibility—to meet deadlines working during the hours and in the places we choose. But before the coronavirus pandemic, only 47 percent of American workers had access to flexible working options. Annie Auerbach advises major corporations, including Nike, Google, Unilever, and Pepsico. She understands work culture and the needs of employees. The world is changing for working women, but until the recent pandemic, companies turned a blind eye. Now, it's time to make this change routine. Auerbach reiterates the importance of leaving the office cubicle behind and explores the realities many women experience working from home and the changes to their daily lives, including the trickle-down effects, from emotional labor to balancing childcare and education with work, to even biohacking the female body's unique rhythms. What happens when women embrace the concept of flex? We become more creative, more strategic with our time and energy, and more engaged with our personal lives. As Auerbach makes clear, we reject "our toxic culture of presenteeism, time-pressure, and ultimately burnout. It helps us escape the army of octopus lady jugglers, crazed with the exhaustion of "having it all." It allows us to live longer lives more sustainably. It gives us self-worth."

Thesis Projects - Mikael Berndtsson
2007-10-25

You're a computing or information

student with a huge mountain to climb - that final-year research project. Don't worry, because with this book guardian angels are at hand, in the form of four brilliant academics who will guide you through the process. The book provides you with all the tools necessary to successfully complete a final year research project. Based on an approach that has been tried and tested on over 500 projects, it offers a simple step-by-step guide to the key processes involved. Not only that, but the book also contains lots of useful information for supervisors and examiners including guidelines on how to review a final year project.

Fuzzy Logic and Soft Computing - Bernadette Bouchon-Meunier 1995-09-15
Soft computing is a new, emerging discipline rooted in a group of technologies that aim to exploit the tolerance for imprecision and uncertainty in achieving solutions to complex problems. The principal components of soft computing are fuzzy logic, neurocomputing, genetic algorithms and probabilistic reasoning. This volume is a collection of up-to-date articles giving a snapshot of the current state of the field. It covers the whole expanse, from theoretical foundations to applications. The contributors are among the world leaders in the field. Contents: Fuzzy Logic and Genetic Algorithms Learning Fuzzy and Hybrid Systems Decision and Aggregation Techniques Fuzzy Logic in Databases Foundations of Fuzzy Logic Applications of Fuzzy Sets Readership: Researchers and computer scientists. keywords: Genetic Fuzzy Systems -

Decision Support Systems and Intelligent Systems - Efraim Turban 2005

A guide to management support system technologies, and how they can be used for better decision making. It focuses on Web-enabled tools, performance analysis, knowledge management, and other innovations.

Almost Human: Making Robots Think - Lee Gutkind 2010-09-06
A remarkable, intense portrait of the

robotic subculture and the challenging quest for robot autonomy. The high bay at the Robotics Institute at Carnegie Mellon University is alive and hyper night and day with the likes of Hyperion, which traversed the Antarctic, and Zoe, the world's first robot scientist, now back home. Robot Segways learn to play soccer, while other robots go on treasure hunts or are destined for hospitals and museums. Dozens of cavorting mechanical creatures, along with tangles of wire, tools, and computer innards are scattered haphazardly. All of these zipping and zooming gizmos are controlled by disheveled young men sitting on the floor, folding chairs, or tool cases, or huddled over laptops squinting into displays with manic intensity. Award-winning author Lee Gutkind immersed himself in this frenzied subculture, following these young roboticists and their bold conceptual machines from Pittsburgh to NASA and to the most barren and arid desert on earth. He makes intelligible their discoveries and stumbling points in this lively behind-the-scenes work.

KONSEP KECERDASAN BUATAN DENGAN PEMAHAMAN LOGIKA FUZZY DAN PENERAPAN APLIKASI - Niki Ratama, M.Kom
Membahas sistem kecerdasan buatan dengan mengambil study kasus sebagai contohnya dan menerapkan metode fuzzy logic sebagai algoritmanya, yang dilanjutkan uji coba perhitungannya menggunakan matlab dan membuat program dekstop dengan guide matlab dan netbean. Buku ini adalah sebagai bahan referensi seputar informasi dan pembelajaran, untuk umum atau pelajar/mahasiswa pada bidang teknik informatika dan juga bisa sebagai bahan referensi untuk tugas akhir mahasiswa/ skripsi, yang membahas tentang komputer cerdas.

Multimodal Signal Processing - Jean-Philippe Thiran 2009-11-11
Multimodal signal processing is an important research and development field that processes signals and combines information from a variety of modalities - speech, vision, language, text - which significantly enhance the understanding, modelling, and performance of human-computer

interaction devices or systems enhancing human-human communication. The overarching theme of this book is the application of signal processing and statistical machine learning techniques to problems arising in this multi-disciplinary field. It describes the capabilities and limitations of current technologies, and discusses the technical challenges that must be overcome to develop efficient and user-friendly multimodal interactive systems. With contributions from the leading experts in the field, the present book should serve as a reference in multimodal signal processing for signal processing researchers, graduate students, R&D engineers, and computer engineers who are interested in this emerging field. Presents state-of-art methods for multimodal signal processing, analysis, and modeling. Contains numerous examples of systems with different modalities combined. Describes advanced applications in multimodal Human-Computer Interaction (HCI) as well as in computer-based analysis and modelling of multimodal human-human communication scenes.

An Introduction to Genetic Algorithms
- Melanie Mitchell 1998-03-02

Genetic algorithms have been used in science and engineering as adaptive algorithms for solving practical problems and as computational models of natural evolutionary systems. This brief, accessible introduction describes some of the most interesting research in the field and also enables readers to implement and experiment with genetic algorithms on their own. It focuses in depth on a small set of important and interesting topics—particularly in machine learning, scientific modeling, and artificial life—and reviews a broad span of research, including the work of Mitchell and her colleagues. The descriptions of applications and modeling projects stretch beyond the strict boundaries of computer science to include dynamical systems theory, game theory, molecular biology, ecology, evolutionary biology, and population genetics, underscoring the exciting "general purpose" nature of genetic

algorithms as search methods that can be employed across disciplines. An Introduction to Genetic Algorithms is accessible to students and researchers in any scientific discipline. It includes many thought and computer exercises that build on and reinforce the reader's understanding of the text. The first chapter introduces genetic algorithms and their terminology and describes two provocative applications in detail. The second and third chapters look at the use of genetic algorithms in machine learning (computer programs, data analysis and prediction, neural networks) and in scientific models (interactions among learning, evolution, and culture; sexual selection; ecosystems; evolutionary activity). Several approaches to the theory of genetic algorithms are discussed in depth in the fourth chapter. The fifth chapter takes up implementation, and the last chapter poses some currently unanswered questions and surveys prospects for the future of evolutionary computation.

Great Gospel Songs and Hymns -
1911-12-12

Interpretability Issues in Fuzzy Modeling - Jorge Casillas 2013-06-05
Fuzzy modeling has become one of the most productive and successful results of fuzzy logic. Among others, it has been applied to knowledge discovery, automatic classification, long-term prediction, or medical and engineering analysis. The research developed in the topic during the last two decades has been mainly focused on exploiting the fuzzy model flexibility to obtain the highest accuracy. This approach usually sets aside the interpretability of the obtained models. However, we should remember the initial philosophy of fuzzy sets theory directed to serve the bridge between the human understanding and the machine processing. In this challenge, the ability of fuzzy models to express the behavior of the real system in a comprehensible manner acquires a great importance. This book collects the works of a group of experts in the field that advocate the

interpretability improvements as a mechanism to obtain well balanced fuzzy models.

Accounting Information Systems - Stephen A. Moscové 1981

Logika Fuzzy - Yulmaini

Mengenal logika fuzzy bagi orang yang belum pernah mengenalnya pasti akan mengira bahwa logika fuzzy adalah sesuatu yang amat rumit dan tidak menyenangkan. Namun, jika seseorang sekali mulai mengenalnya maka ia pasti akan sangat tertarik dan akan menjadi pendaftar baru untuk ikut serta mempelajari logika fuzzy.

Logika fuzzy pertama kali diperkenalkan oleh Prof. Lotfi A. Zadeh pada tahun 1965. Dasar logika fuzzy adalah teori himpunan (Kusumadewi & Purnomo, 2013). Logika fuzzy adalah suatu cara yang tepat untuk memetakan suatu ruang input ke dalam suatu ruang output. Buku *Logika Fuzzy: Studi Kasus & Penyelesaian Menggunakan Microsoft Excel dan MATLAB* ini berguna bagi mahasiswa fakultas ilmu komputer khususnya jurusan Teknik Informatika dalam mempelajari mata kuliah Fuzzy Logic (Logika Fuzzy). Buku ini akan membantu mahasiswa dalam menyelesaikan kasus terkait metode fuzzy, yaitu FIS dan FAM karena dalam buku ini ada pembahasan tentang studi kasus metode FIS dan FAM yang diambil dari hasil-hasil penelitian. Selain itu, dalam buku ini ada studi kasus yang diselesaikan dengan menggunakan aplikasi Microsoft Excel dan MATLAB. *Advanced Machining Processes* - Muslim Mahardika 2018-05-02

Advanced machining processes has significant contributions to the manufacturing industries, especially since many new invented materials have advanced properties, which are difficult to machine using conventional machining processes. Therefore, advanced machining processes take a lead in dealing with these types of material. This book focuses on electrical machining and electrical dressing processes. Chapter 1 explains the electrochemical machining (ECM), includes process parameters that involved in the ECM processes. Chapter 2 deals with another advanced

machining process, i.e. electro-discharge machining (EDM). Several process parameters that contribute to the EDM processes are also discussed. Electrical dressing is described in Chapter 3 as a special application of ECM and EDM. Finally, other types of non-conventional machining are explained in Chapter 4. [UGM Press, UGM, Gadjah Mada University Press] **Fuzzy Logic for Business, Finance, and Management** - George Bojadziew 2007

This is truly an interdisciplinary book for knowledge workers in business, finance, management and socio-economic sciences based on fuzzy logic. It serves as a guide to and techniques for forecasting, decision making and evaluations in an environment involving uncertainty, vagueness, impression and subjectivity. Traditional modeling techniques, contrary to fuzzy logic, do not capture the nature of complex systems especially when humans are involved. Fuzzy logic uses human experience and judgement to facilitate plausible reasoning in order to reach a conclusion. Emphasis is on applications presented in the 27 case studies including Time Forecasting for Project Management, New Product Pricing, and Control of a Parasit-Pest System.

2017 5th International Conference on Cyber and IT Service Management (CITSM) - IEEE Staff 2017-08-08

In the general area of computer science and information system It provides a forum for presenting and discussing the latest innovations, results and developments in cyber networks, pervasive systems, cloud environments, enterprise and IT related to service management Climate Change 2013: The Physical Science Basis - Intergovernmental Panel on Climate Change 2014-03-24 The Fifth Assessment Report of the IPCC is the standard scientific reference on climate change for students, researchers and policy makers.

Systematic Reviews in the Social Sciences - Mark Petticrew 2008-04-15 Such diverse thinkers as Lao-Tze, Confucius, and U.S. Defense Secretary Donald Rumsfeld have all pointed out

that we need to be able to tell the difference between real and assumed knowledge. The systematic review is a scientific tool that can help with this difficult task. It can help, for example, with appraising, summarising, and communicating the results and implications of otherwise unmanageable quantities of data. This book, written by two highly-respected social scientists, provides an overview of systematic literature review methods: Outlining the rationale and methods of systematic reviews; Giving worked examples from social science and other fields; Applying the practice to all social science disciplines; It requires no previous knowledge, but takes the reader through the process stage by stage; Drawing on examples from such diverse fields as psychology, criminology, education, transport, social welfare, public health, and housing and urban policy, among others. Including detailed sections on assessing the quality of both quantitative, and qualitative research; searching for evidence in the social sciences; meta-analytic and other methods of evidence synthesis; publication bias; heterogeneity; and approaches to dissemination.

Web Information Systems Engineering - Leong Hou U 2020-02-05

This book constitutes the refereed proceedings, presented on the 20th International Conference on Web Information Systems Engineering, WISE 2019 and on The International Workshop on Web Information Systems in the Era of AI, held in Hong Kong and Macau, China. Due to the problems in Hong Kong, WISE 2019 has been postponed until January 2020. The 7 workshop papers, 5 demo papers and 3 tutorial papers presented were carefully reviewed and selected from numerous submissions. The papers are organized in the following sections: tutorials; demos; the International Workshop on Web Information Systems in the Era of AI.

Genetic Algorithm Essentials - Oliver Kramer 2017-01-07

This book introduces readers to genetic algorithms (GAs) with an emphasis on making the concepts,

algorithms, and applications discussed as easy to understand as possible. Further, it avoids a great deal of formalisms and thus opens the subject to a broader audience in comparison to manuscripts overloaded by notations and equations. The book is divided into three parts, the first of which provides an introduction to GAs, starting with basic concepts like evolutionary operators and continuing with an overview of strategies for tuning and controlling parameters. In turn, the second part focuses on solution space variants like multimodal, constrained, and multi-objective solution spaces. Lastly, the third part briefly introduces theoretical tools for GAs, the intersections and hybridizations with machine learning, and highlights selected promising applications.

Fuzzy Set Theory – and Its Applications - Hans-Jürgen Zimmermann
2013-12-01

Fuzzy Systems Design - Leonid Reznik
2013-06-29

Fuzzy logic is a way of thinking that is responsive to human zeal to unveil uncertainty and deal with social paradoxes emerging from it. In this book a number of articles illustrate various social applications to fuzzy logic. The engineering part of the book contains a number of papers, devoted to the description of fuzzy engineering design methodologies. In order to share the experience gained we select papers describing not the application result only but the way how this result has been obtained, that is explaining the design procedures. The potential readership of this book includes researchers and students, workers and engineers in both areas of social and engineering studies. It can be used as a handbook and textbook also. The book includes some examples of real fuzzy engineering.

Systems Analysis and Design in a Changing World - John W. Satzinger
2015-02-01

Refined and streamlined, SYSTEMS ANALYSIS AND DESIGN IN A CHANGING WORLD, 7E helps students develop the conceptual, technical, and managerial

foundations for systems analysis design and implementation as well as project management principles for systems development. Using case driven techniques, the succinct 14-chapter text focuses on content that is key for success in today's market. The authors' highly effective presentation teaches both traditional (structured) and object-oriented (OO) approaches to systems analysis and design. The book highlights use cases, use diagrams, and use case descriptions required for a modeling approach, while demonstrating their application to traditional, web development, object-oriented, and service-oriented architecture approaches. The Seventh Edition's refined sequence of topics makes it easier to read and understand than ever. Regrouped analysis and design chapters provide more flexibility in course organization. Additionally, the text's running cases have been completely updated and now include a stronger focus on connectivity in applications. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

First Course on Fuzzy Theory and Applications - Kwang Hyung Lee
2006-11-30

Fuzzy theory has become a subject that generates much interest among the courses for graduate students. However, it was not easy to find a suitable textbook to use in the introductory course and to recommend to the students who want to self-study. The main purpose of this book is just to meet that need. The author has given lectures on the fuzzy theory and its applications for ten years and continuously developed lecture notes on the subject. This book is a publication of the modification and summary of the lecture notes. The fundamental idea of the book is to provide basic and concrete concepts of the fuzzy theory and its applications, and thus the author focused on easy illustrations of the basic concepts. There are numerous examples and figures to help readers to understand and also added exercises at the end of each chapter.

This book consists of two parts: a theory part and an application part. The first part (theory part) includes chapters from 1 to 8. Chapters 1 and 2 introduce basic concepts of fuzzy sets and operations, and Chapters 3 and 4 deal with the multi-dimensional fuzzy sets. Chapters 5 and 6 are extensions of the fuzzy theory to the number and function, and Chapters 7 and 8 are developments of fuzzy properties on the probability and logic theories.

Practical Applications in Sports Nutrition - Heather Hedrick Fink
2013-11-25

Revised and updated to keep pace with the growing changes in the field, the Fourth Edition of Practical Applications in Sports Nutrition provides students and practitioners with the latest sports nutrition information and dietary practices, and prepares them to assist athletes and fitness enthusiasts in achieving their personal performance goals. Early chapters provide an introduction to sports nutrition and give a thorough explanation of macronutrients, micronutrients, and water and their relation to athletic performance. Later chapters focus on the practical and applied aspects of sports nutrition including behavior change through consultations and weight management. Chapter 15 targets the unique nutrition requirements of special populations such as athletes who are pregnant, vegetarian, or have chronic diseases. The text concludes with a chapter dedicated to helping readers discover the pathway to becoming a sports dietitian through education and experience. New to the Fourth Edition: • New discussion of sports nutritionists as evidence-based practitioners • Current MyPlate food group recommendations • Revised discussion of the relationship between current body weight and carbohydrate intake, as well as the types and the amounts of carbohydrates that should be consumed during exercise • New Food For Thought callouts identify related material in Sports Nutrition Workbook and Assessments • Updated statistics, guidelines, and regulations found throughout the text, including

obesity statistics, carbohydrate

intake and vitamin needs.