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Digital Design 2nd Edition with RTL Design, VHDL, and Verilog and Verilog for Digital Design Set

2010-02-18

an eagerly anticipated up to date guide to essential digital design fundamentals offering a modern updated approach to digital design this much needed book reviews basic design fundamentals before diving into specific details of design optimization you begin with an examination of the low levels of design noting a clear distinction between design and gate level minimization the author then progresses to the key uses of digital design today and how it is used to build high performance alternatives to software offers a fresh up to date approach to digital design whereas most literature available is sorely outdated progresses though low levels of design making a clear distinction between design and gate level minimization addresses the various uses of digital design today enables you to gain a clearer understanding of applying digital design to your life with this book by your side you ll gain a better understanding of how to apply the material in the book to real world scenarios

Digital Design with RTL Design, VHDL, and Verilog

2010-03-09

unlock modern machine learning and deep learning techniques with python by using the latest cutting edge open source python libraries about this book second edition of the bestselling book on machine learning a practical approach to key frameworks in data science machine learning and deep learning use the most powerful python libraries to implement machine learning and deep learning get to know the best practices to improve and optimize your machine learning systems and algorithms who this book is for if you know some python and you want to use machine learning and deep learning pick up this book whether you want to start from scratch or extend your machine learning knowledge this is an essential and unmissable resource written for developers and data scientists who want to create practical machine learning and deep learning code this book is ideal for developers and data scientists who want to teach computers how to learn from data what you will learn understand the key frameworks in data science machine learning and deep learning harness the power of the latest python open source libraries in machine learning explore machine learning techniques using challenging real world data master deep neural network implementation using the tensorflow library learn the mechanics of classification algorithms to implement the best tool for the job predict continuous target outcomes using regression analysis uncover hidden patterns and structures in data with clustering delve deeper into textual and social media data using sentiment analysis in detail machine learning is eating the software world and now deep learning is extending machine learning understand and work at the cutting edge of machine learning neural networks and deep learning with this second edition of sebastian raschka s bestselling book python machine learning thoroughly updated using the latest python open source libraries this book offers the practical knowledge and techniques you need to create and contribute to machine learning deep learning and modern data analysis fully extended and modernized python machine learning second edition now includes the popular tensorflow deep learning library the scikit learn code has also been fully updated to include recent improvements and additions to this versatile machine learning library sebastian raschka and vahid mirjalili s unique insight and expertise introduce you to machine learning and deep learning algorithms from scratch and show you how to apply them to practical industry challenges using realistic and interesting examples by the end of the book you ll be ready to meet the new data analysis opportunities in today s world if you ve read the first edition of this book you ll be delighted to find a new balance of classical ideas and modern insights into machine learning every chapter has been critically updated and there are new chapters on key technologies you ll be able to learn and work with tensorflow more deeply than ever before and get essential coverage of the keras neural network library along with the most recent updates to scikit learn style and approach python machine learning second edition takes a practical hands on coding approach so you can learn about machine learning by coding with python this book moves fluently between the theoretical principles of machine learning and the practical details of implementation with python

Python Machine Learning

2017-09-20

journalism permeates our lives and shapes our thoughts in ways that we have long taken for granted whether it is national public radio in the morning or the lead story on the today show the morning newspaper headlines up to the minute internet news grocery store tabloids time magazine in our mailbox or the nightly news on television journalism pervades our

lives the encyclopedia of journalism covers all significant dimensions of journalism such as print broadcast and internet journalism u s and international perspectives and history technology legal issues and court cases ownership and economics the encyclopedia will consist of approximately 500 signed entries from scholars experts and journalists under the direction of lead editor gregory borchard of university of nevada las vegas

ON THE MODERN POLITICIZATION OF THE PERSIAN POET NEZAMI GANJAVI

2012

solve real world data problems with r and machine learning key features third edition of the bestselling widely acclaimed r machine learning book updated and improved for r 3 6 and beyond harness the power of r to build flexible effective and transparent machine learning models learn quickly with a clear hands on guide by experienced machine learning teacher and practitioner brett lantz book description machine learning at its core is concerned with transforming data into actionable knowledge r offers a powerful set of machine learning methods to quickly and easily gain insight from your data machine learning with r third edition provides a hands on readable guide to applying machine learning to real world problems whether you are an experienced r user or new to the language brett lantz teaches you everything you need to uncover key insights make new predictions and visualize your findings this new 3rd edition updates the classic r data science book to r 3 6 with newer and better libraries advice on ethical and bias issues in machine learning and an introduction to deep learning find powerful new insights in your data discover machine learning with r what you will learn discover the origins of machine learning and how exactly a computer learns by example prepare your data for machine learning work with the r programming language classify important outcomes using nearest neighbor and bayesian methods predict future events using decision trees rules and support vector machines forecast numeric data and estimate financial values using regression methods model complex processes with artificial neural networks the basis of deep learning avoid bias in machine learning models evaluate your models and improve their performance connect r to sql databases and emerging big data technologies such as spark h2o and tensorflow who this book is for data scientists students and other practitioners who want a clear accessible guide to machine learning with r

China Foreign Enterprise Directory 2nd Edition - 2006

2005

python cnn rnn scikit learn tensorflow python 13 16 python machine learning machine learning and deep learning with python scikit learn and tensorflow 2 3rd edition python 1 python acm 21st annual list of notable books and articles 2016 it 2017 10

The SAGE Encyclopedia of Journalism

2022-02-22

elastohydrodynamic lubrication ehl is a difficult topic embracing several disciplines which can cause many problems for engineers and scientists this up to date volume explains the subject both theoretically and experimentally moreover with a refreshing approach and using several novel techniques of application it provides lucid coverage of new and important findings here in one volume are the results of much research over the last forty years the author s clear explanation of the theory of ehl is authoritatively applied to a wide range of related topics with physical explanations wherever possible many of the experimental techniques described were carried out at the imperial college lubrication laboratory where the application of interferometry a means of measuring the ehl film thickness was pioneered a

Machine Learning with R

2019-04-15

delve into neural networks implement deep learning algorithms and explore layers of data abstraction with the help of tensorflow key features learn how to implement advanced techniques in deep learning with google s brainchild tensorflow explore deep neural networks and layers of data abstraction with the help of this comprehensive guide gain real world contextualization through some deep learning problems concerning research and application book description deep learning is a branch of machine learning algorithms based on learning multiple levels of abstraction neural networks which are at the core of deep learning are being used in predictive analytics computer vision natural language processing time series forecasting and to perform a myriad of other complex tasks this book is conceived for developers data analysts machine learning practitioners and deep learning enthusiasts who want to build powerful robust and accurate predictive models with the power of tensorflow combined with other open source python libraries throughout the book you ll learn how to develop deep learning applications for machine learning systems using feedforward neural networks convolutional neural networks recurrent neural networks autoencoders and factorization machines discover how to attain deep learning programming on gpu in a distributed way you ll come away with an in depth knowledge of machine learning techniques and the skills to apply them to real world projects what you will learn apply deep machine intelligence and gpu computing with tensorflow access public datasets and use tensorflow to load process and transform the data discover how to use the high level tensorflow api to build more powerful applications use deep learning for scalable object detection and mobile computing train machines quickly to learn from data by exploring reinforcement learning techniques explore active areas of deep learning research and applications who this book is for the book is for people interested in machine learning and machine intelligence a rudimentary level of programming in one language is assumed as is a basic familiarity with computer science techniques and technologies including a basic awareness of computer hardware and algorithms some competence in mathematics is needed to the level of elementary linear algebra and calculus

Python 3 Data Science Toolboxes

2020-10-22

python data science toolboxes provides a comprehensive guide to the most popular data science libraries in python including numpy pandas matplotlib scikit learn and tensorflow tips and tricks for using these libraries effectively
 python data science toolboxes provides a comprehensive guide to the most popular data science libraries in python including numpy pandas matplotlib scikit learn and tensorflow tips and tricks for using these libraries effectively

Elastohydrodynamics (2nd Edition)

2001-11-16

lectures on digital design principles provides students an accessible reference for engaging with the building blocks of digital logic design the book is an aggregation of lectures for an introductory course and provides a conversational style to better engage with students since the text is developed from lectures important and foundational concepts are highlighted without tedious proofs with respect to subject matter students are introduced to different methods of abstracting digital systems along with the strengths and weaknesses of these different methods for example boolean logic can be represented as algebraic equations gate level diagrams switching circuits truth tables etc strengths and drawbacks to these representations are discussed in the context of boolean minimization and electronic design automation the text also delves into dynamic behavior of digital circuits with respect to timing in combinational circuits and state transitions in sequential circuits

Deep Learning with TensorFlow

2018-03-30

write modern natural language processing applications using deep learning algorithms and tensorflow key features focuses on more efficient natural language processing using tensorflow covers nlp as a field in its own right to improve understanding for choosing tensorflow tools and other deep learning approaches provides choices for how to process and evaluate large unstructured text datasets learn to apply the tensorflow toolbox to specific tasks in the most interesting field in artificial intelligence book description natural language processing nlp supplies the majority of data available to deep learning applications while tensorflow is the most important deep learning framework currently available natural language processing with tensorflow brings tensorflow and nlp together to give you invaluable tools to work with the immense volume of unstructured data in today s data streams and apply these tools to specific nlp tasks thushan ganegedara starts by giving you a grounding in nlp and tensorflow basics you ll then learn how to use word2vec including advanced extensions to create word embeddings that turn sequences of words into vectors accessible to deep learning algorithms chapters on classical deep learning algorithms like convolutional neural networks cnn and recurrent neural networks rnn demonstrate important nlp tasks as sentence classification and language generation you will learn how to apply high performance rnn models like long short term memory lstm cells to nlp tasks you will also explore neural machine translation and implement a neural machine translator after reading this book you will gain an understanding of nlp and you ll have the skills to apply tensorflow in deep learning nlp applications and how to perform specific nlp tasks what you will learn core concepts of nlp and various approaches to natural language processing how to solve nlp tasks by applying tensorflow functions to create neural networks strategies to process large amounts of data into word representations that can be used by deep learning applications techniques for performing sentence classification and language generation using cnns and rnns about employing state of the art advanced rnns like long short term memory to solve complex text generation tasks how to write automatic translation programs and implement an actual neural machine translator from scratch the trends and innovations that are paving the future in nlp who this book is for this book is for python developers with a strong interest in deep learning who want to learn how to leverage tensorflow to simplify nlp tasks fundamental python skills are assumed as well as some knowledge of machine learning and undergraduate level calculus and linear algebra no previous natural language processing experience required although some background in nlp or computational linguistics will be helpful

Python□□□□□□□□□□□□□□□□

2018-05

this practical guide will teach you how deep learning dl can be used to solve complex real world problems key features explore deep reinforcement learning rl from the first principles to the latest algorithms evaluate high profile rl methods including value iteration deep q networks policy gradients trpo ppo ddpq d4pg evolution strategies and genetic algorithms keep up with the very latest industry developments including ai driven chatbots book description recent developments in reinforcement learning rl combined with deep learning dl have seen unprecedented progress made towards training agents to solve complex problems in a human like way google s use of algorithms to play and defeat the well known atari arcade games has propelled the field to prominence and researchers are generating new ideas at a rapid pace deep reinforcement learning hands on is a comprehensive guide to the very latest dl tools and their limitations you will evaluate methods including cross entropy and policy gradients before applying them to real world environments take on both the atari set of virtual games and family favorites such as connect4 the book provides an introduction to the basics of rl giving you the know how to code intelligent learning agents to take on a formidable array of practical tasks discover how to implement q learning on grid world environments teach your agent to buy and trade stocks and find out how natural language models are driving the boom in chatbots what you will learn understand the dl context of rl and implement complex dl models learn the foundation of rl markov decision processes evaluate rl methods including cross entropy dqn actor critic trpo ppo ddpq d4pg and others discover how to deal with discrete and continuous action spaces in various environments defeat atari arcade games using the value iteration method create your own openai gym environment to train a stock trading agent teach your agent to play connect4 using alphago zero explore the very latest deep rl research on topics including ai driven chatbots who this book is for some fluency in python is assumed basic deep learning dl approaches should be familiar to readers and some practical experience in dl will be helpful this book is an introduction to deep reinforcement learning rl and requires no background in rl

Lectures on Digital Design Principles

2023-07-27

explore the mathematical computations and algorithms for image processing using popular python tools and frameworks key featurespractical coverage of every image processing task with popular python librariesincludes topics such as pseudo coloring noise smoothing computing image descriptorscovers popular machine learning and deep learning techniques for complex image processing tasksbook description image processing plays an important role in our daily lives with various applications such as in social media face detection medical

imaging x ray ct scan security fingerprint recognition to robotics space this book will touch the core of image processing from concepts to code using python the book will start from the classical image processing techniques and explore the evolution of image processing algorithms up to the recent advances in image processing or computer vision with deep learning we will learn how to use image processing libraries such as pil scikit image and scipy ndimage in python this book will enable us to write code snippets in python 3 and quickly implement complex image processing algorithms such as image enhancement filtering segmentation object detection and classification we will be able to use machine learning models using the scikit learn library and later explore deep cnn such as vgg 19 with keras and we will also use an end to end deep learning model called yolo for object detection we will also cover a few advanced problems such as image inpainting gradient blending variational denoising seam carving quilting and morphing by the end of this book we will have learned to implement various algorithms for efficient image processing what you will learn perform basic data pre processing tasks such as image denoising and spatial filtering in python implement fast fourier transform fft and frequency domain filters e g weiner in python do morphological image processing and segment images with different algorithms learn techniques to extract features from images and match images write python code to implement supervised unsupervised machine learning algorithms for image processing use deep learning models for image classification segmentation object detection and style transfer who this book is for this book is for computer vision engineers and machine learning developers who are good with python programming and want to explore details and complexities of image processing no prior knowledge of the image processing techniques is expected

Natural Language Processing with TensorFlow

2018-05-31

student companion site every new copy of stuart wentworth s applied electromagnetics comes with a registration code which allows access to the student s book companion site on the bcs the student will find detailed solutions to odd numbered problems in the text detailed solutions to all drill problems from the text matlab code for all the matlab examples in the text additional matlab demonstrations with code this includes a transmission lines simulator created by the author weblinks to a vast array of resources for the engineering student go to wiley com college wentworth to link to applied electromagnetics and the student companion site about the photo passive rfid systems consisting of readers and tags are expected to replace bar codes as the primary means of identification inventory and billing of everyday items the tags typically consist of an rfid chip placed on a flexible film containing a planar antenna the antenna captures radiation from the reader s signal to power the tag electronics which then responds to the reader s query the peni tag product emitting numbering identification tag shown developed by the university of pittsburgh in a team led by professor marlin h mickle integrates the antenna with the rest of the tag electronics rfid systems involve many electromagnetics concepts including antennas radiation transmission lines and microwave circuit components photo courtesy of marlin h mickle

Deep Reinforcement Learning Hands-On

2018-06-21

become a master at penetration testing using machine learning with python key features identify ambiguities and breach intelligent security systems perform unique cyber attacks to breach robust systems learn to leverage machine learning algorithms book description cyber security is crucial for both businesses and individuals as systems are getting smarter we now see machine learning interrupting computer security with the adoption of machine learning in upcoming security products it s important for pentesters and security researchers to understand how these systems work and to breach them for testing purposes this book begins with the basics of machine learning and the algorithms used to build robust systems once you ve gained a fair understanding of how security products leverage machine learning you ll dive into the core concepts of breaching such systems through practical use cases you ll see how to find loopholes and surpass a self learning security system as you make your way through the chapters you ll focus on topics such as network intrusion detection and av and ids evasion we ll also cover the best practices when identifying ambiguities and extensive techniques to breach an intelligent system by the end of this book you will be well versed with identifying loopholes in a self learning security system and will be able to efficiently breach a machine learning system what you will learn take an in depth look at machine learning get to know natural language processing nlp understand malware feature engineering build generative adversarial networks using python libraries work on threat hunting with machine learning and the elk stack explore the best practices for machine learning who this book is for this book is for pen testers and security professionals who are interested in learning techniques to break an intelligent security system basic knowledge of python is needed but no prior knowledge of machine learning is necessary

Hands-On Image Processing with Python

2018-11-30

create deep learning and reinforcement learning apps for multiple platforms with tensorflow key features build tensorflow powered ai applications for mobile and embedded devices learn modern ai topics such as computer vision nlp and deep reinforcement learning get practical insights and exclusive working code not available in the tensorflow documentation book description as a developer you always need to keep an eye out and be ready for what will be trending soon while also focusing on what s trending currently so what s better than learning about the integration of the best of both worlds the present and the future artificial intelligence ai is widely regarded as the next big thing after mobile and google s tensorflow is the leading open source machine learning framework the hottest branch of ai this book covers more than 10 complete ios android and raspberry pi apps powered by tensorflow and built from scratch running all kinds of cool tensorflow models offline on device from computer vision speech and language processing to generative adversarial networks and alphazero like deep reinforcement learning you ll learn how to use or retrain existing tensorflow models build your own models and develop intelligent mobile apps running those tensorflow models you ll learn how to quickly build such apps with step by step tutorials and how to avoid many pitfalls in the process with lots of hard earned troubleshooting tips what you will learn classify images with transfer learning detect objects and their locations transform pictures with amazing art styles understand simple speech commands describe images in natural language recognize drawing with convolutional neural network and long short term memory predict stock price with recurrent neural network in tensorflow and keras generate and enhance images with generative adversarial networks build alphazero like mobile game app in tensorflow and keras use tensorflow lite and core ml on mobile develop tensorflow apps on raspberry pi that can move see listen speak and learn who this book is for if you re an ios android developer interested in building and retraining others tensorflow models and running them in your mobile apps or if you re a tensorflow developer and want to run your new and amazing tensorflow models on mobile devices this book is for you you ll also benefit from this book if you re interested in tensorflow lite core ml or tensorflow on raspberry pi

The Message Of GOD And The Prayer Of The Faithful - Second Edition

2007-01-09

this is a practical book for computer engineers who want to understand or implement hardware software systems it focuses on problems that require one to combine hardware design with software design such problems can be solved with hardware software codesign when used properly hardware software co sign works better than hardware design or software design alone it can improve the overall performance of digital systems and it can shorten their design time hardware software codesign can help a designer to make trade offs between the exibility and the performanceof a digital system to achieve this a designer needs to combine two radically different ways of design the sequential way of dec position in time using software with the parallel way of decomposition in space using hardware intended audience this book assumes that you have a basic understandingof hardware that you are miliar with standard digital hardware componentssuch as registers logic gates and components such as multiplexers and arithmetic operators the book also assumes that you know how to write a program in c these topics are usually covered in an introductory course on computer engineering or in a combination of courses on digital design and software engineering

Applied Electromagnetics

2018-06-27

this book is a post revisionist history of the late ottoman empire that makes a major contribution to ottoman scholarship

Mastering Machine Learning for Penetration Testing

2018-05-22

this book introduces a modern approach to embedded system design presenting software design and hardware design in a unified manner it covers trends and challenges introduces the design and use of single purpose processors hardware and general purpose processors software describes memories and buses illustrates hardware software tradeoffs using a digital camera example and discusses advanced computation models controls systems chip technologies and modern design tools for courses found in ee cs and other engineering departments

Intelligent Mobile Projects with TensorFlow

1991-07

explore the different data mining techniques using the libraries and packages offered by python key featuresgrasp the basics of data loading cleaning analysis and visualizationuse the popular python libraries such as numpy pandas matplotlib and scikit learn for data miningyour one stop guide to build efficient data mining pipelines without going into too much theorybook description data mining is a necessary and predictable response to the dawn of the information age it is typically defined as the pattern and or trend discovery phase in the data mining pipeline and python is a popular tool for performing these tasks as it offers a wide variety of tools for data mining this book will serve as a quick introduction to the concept of data mining and putting it to practical use with the help of popular python packages and libraries you will get a hands on demonstration of working with different real world datasets and extracting useful insights from them using popular python libraries such as numpy pandas scikit learn and matplotlib you will then learn the different stages of data mining such as data loading cleaning analysis and visualization you will also get a full conceptual description of popular data transformation clustering and classification techniques by the end of this book you will be able to build an efficient data mining pipeline using python without any hassle what you will learnexplore the methods for summarizing datasets and visualizing plotting datacollect and format data for analytical workassign data points into groups and visualize clustering patternslearn how to predict continuous and categorical outputs for dataclean filter noise from and reduce the dimensions of dataserialize a data processing model using scikit learn s pipeline featuredeploy the data processing model using python s pickle modulewho this book is for python developers interested in getting started with data mining will love this book budding data scientists and data analysts looking to quickly get to grips with practical data mining with python will also find this book to be useful knowledge of python programming is all you need to get started

Library Journal

2010-09-09

gasoline the most common petroleum product comes in several types or grades straight run gasoline is generated solely by crude oil distillation crack gasoline derived by thermal or catalytic breaking of heavier oil fractions accounts for the majority of gasoline used in automobile and aviation straight run gasoline fractured gasoline reformed and synthetic gasoline and additives are used to create a wide range of gasoline kinds

A Practical Introduction to Hardware/Software Codesign

1991

this book analyses the islamic state is within a comparative framework of past sunni jihadist movements it argues jihadist failure to overthrow muslim apostate states has led to a progressive radicalization of violent islamist terror networks this outcome has contributed over time to more brutal jihadist doctrines and tactics contributing to a total war doctrine strategy targeting muslim apostate states the near enemy non muslim civilizations the far enemy and sectarian minorities heterodox muslims and christians these extremist tendencies have been building for over a generation and have reached their culmination in the rise and fall of the islamic state s caliphate given past tendencies the emergence of yet even more radical sunni jihadist movement is probable

Choice

1988

the ever expanding abundance of information and computing power enables searchers and users to tackle highly interesting issues such as applications providing personalized access and interactivity to multimodal information based on user preferences and semantic concepts or human machine interface systems utilizing information on the affective state of the user the general focus of the aiai conference is to provide insights on how ai can be implemented in real world applications this volume contains papers selected for presentation at the 5th ifip conference on artificial intelligence applications innovations aiai 2009 being held from 23rd till 25th of april in thessaloniki greece the ifip aiai 2009 conference is co organized by the aristotle university of thessaloniki by the university of macedonia thessaloniki and by the democritus university of thrace aiai 2009 is the official conference of the wg12.5 artificial intelligence applications working group of ifip tc12 the international federation for information processing technical committee on artificial intelligence ai it is a conference growing and maintaining high standards of quality the purpose of the 5th ifip aiai conference is to bring together researchers engineers and practitioners interested in the technical advances and business industrial applications of intelligent systems aiai 2009 is not only focused in providing insights on how ai can be implemented in real world applications but it also covers innovative methods tools and ideas of ai on architectural and algorithmic level

Islamiyat

2010-09-13

modelling trends and cycles in economic time series has a long history with the use of linear trends and moving averages forming the basic tool kit of economists until the 1970s several developments in econometrics then led to an overhaul of the techniques used to extract trends and cycles from time series terence mills introduces these various approaches to allow students and researchers to appreciate the variety of techniques and the considerations that underpin their choice for modelling trends and cycles

The Second Ottoman Empire

2001-10-17

as electronic technology reaches the point where complex systems can be integrated on a single chip and higher degrees of performance can be achieved at lower costs designers must devise new ways to undertake the laborious task of coping with the numerous and non trivial problems that arise during the conception of such systems on the other hand shorter design cycles so that electronic products can fit into shrinking market windows put companies and consequently designers under pressure in a race to obtain reliable products in the minimum period of time new methodologies supported by automation and abstraction have appeared which have been crucial in making it possible for system designers to take over the traditional electronic design process and embedded systems is one of the fields that these methodologies are mainly targeting the inherent complexity of these systems with hardware and software components that usually execute concurrently and the very tight cost and performance constraints make them specially suitable to introduce higher levels of abstraction and automation so as to allow the designer to better tackle the many problems that appear during their design advanced techniques for embedded systems design and test is a comprehensive book presenting recent developments in methodologies and tools for the specification synthesis verification and test of embedded systems characterized by the use of high level languages as a road to productivity each specific part of the design process from specification through to test is looked at with a constant emphasis on behavioral methodologies advanced techniques for embedded systems design and test is essential reading for all researchers in the design and test communities as well as system designers and cad tools developers

Embedded System Design

2019-04-25

persian literature is the jewel in the crown of persian culture it has profoundly influenced the literatures of ottoman turkey muslim india and turkic central asia and been a source of inspiration for goethe emerson matthew arnold and jorge luis borges among others yet persian literature has never received the attention it truly deserves a history of persian literature answers this need and offers a new comprehensive and detailed history of its subject this 18 volume authoritative survey reflects the stature and significance of persian literature as the single most important accomplishment of the iranian experience it includes extensive revealing examples with contributions by prominent scholars who bring a fresh critical approach to bear on this important topic the first volume offers an indispensable entree to persian literature s long and rich history examining themes and subjects that are common to many fields of persian literary study this invaluable introduction to the subject heralds a definitive and ground breaking new series

Python Data Mining Quick Start Guide

2022-10-24

this book advances the agenda of informality as a transnational phenomenon recognizing that contemporary urban and regional challenges need to be addressed at both local and global levels this project may be considered a call for action its urgency derives from the impact of the pandemic combined with the effects of climate change in informal settlements around the world while the notion of the informal is usually associated with the analysis and interventions in informal settlements this book expands the concept of informality to acknowledge its interdisciplinary parameters the book is geographically organized into five sections the first part provides a conceptual overview of the notion of the informal serving as an introduction and reflection on the subject the following sections are dedicated to the principal regions of the global south latin america us mexico borderlands asia and africa while considering the interconnections and correspondences between urbanism in the global south and the global north this book offers a critical introduction to groundbreaking theories and design practices of informality in the built environment it provides essential reading for scholars professionals and students in urban studies architecture city planning urban geography sociology anthropology cultural studies economics and the arts as a critical survey of informality the book examines history theory and production across a range of informal practices and phenomena in urbanism architecture activism and participatory design authored by a diverse and international cohort of leading educators theorists and practitioners 45 chapters refine and expand the discourse surrounding informal cities

Gasoline Additives

1963

decision support programme for production and operations management

Library Catalogue: Author catalogue

2018-06-12

when it was first published some two decades ago the original handbook of lubrication and tribology stood on technology s cutting edge as the first comprehensive reference to assist the emerging science of tribology lubrication later followed by volume ii theory and design and volume iii monitoring materials synthetic lubricants and ap

The Islamic State

2009-07-14

updated and revised second edition of the bestselling guide to exploring and mastering the most important algorithms for solving complex machine learning problems key features updated to include new algorithms and techniques code updated to python 3 8 tensorflow 2 x new coverage of regression analysis time series analysis deep learning models and cutting edge applications book description mastering machine learning algorithms second edition helps you harness the real power of machine learning algorithms in order to implement

smarter ways of meeting today's overwhelming data needs this newly updated and revised guide will help you master algorithms used widely in semi supervised learning reinforcement learning supervised learning and unsupervised learning domains you will use all the modern libraries from the python ecosystem including numpy and keras to extract features from varied complexities of data ranging from bayesian models to the markov chain monte carlo algorithm to hidden markov models this machine learning book teaches you how to extract features from your dataset perform complex dimensionality reduction and train supervised and semi supervised models by making use of python based libraries such as scikit learn you will also discover practical applications for complex techniques such as maximum likelihood estimation hebbian learning and ensemble learning and how to use tensorflow 2.x to train effective deep neural networks by the end of this book you will be ready to implement and solve end to end machine learning problems and use case scenarios what you will learn understand the characteristics of a machine learning algorithm implement algorithms from supervised semi supervised unsupervised and rl domains learn how regression works in time series analysis and risk prediction create model and train complex probabilistic models cluster high dimensional data and evaluate model accuracy discover how artificial neural networks work train optimize and validate them work with autoencoders hebbian networks and gans who this book is for this book is for data science professionals who want to delve into complex ml algorithms to understand how various machine learning models can be built knowledge of python programming is required

Artificial Intelligence Applications and Innovations

1981

the book is divided into four major parts part i covers hdl constructs and synthesis of basic digital circuits part ii provides an overview of embedded software development with the emphasis on low level i/o access and drivers part iii demonstrates the design and development of hardware and software for several complex i/o peripherals including ps2 keyboard and mouse a graphic video controller an audio codec and an sd secure digital card part iv provides three case studies of the integration of hardware accelerators including a custom gcd greatest common divisor circuit a mandelbrot set fractal circuit and an audio synthesizer based on ddfs direct digital frequency synthesis methodology the book utilizes fpga devices nios ii soft core processor and development platform from altera co which is one of the two main fpga manufacturers altera has a generous university program that provides free software and discounted prototyping boards for educational institutions details at altera.com/university the two main educational prototyping boards are known as de1 99 and de2 269 all experiments can be implemented and tested with these boards a board combined with this book becomes a turn key solution for the soc design experiments and projects most hdl and c codes in the book are device independent and can be adapted by other prototyping boards as long as a board has similar i/o configuration

List of Titles Added to the Catalogue

2003-05-15

Modelling Trends and Cycles in Economic Time Series

2013-03-09

Advanced Techniques for Embedded Systems Design and Test

2008-10-31

General Introduction to Persian Literature

2022-10-03

Informality and the City

1991

Decision Support Systems for Production and Operations Management (DSSPOM)

2006-04-06

Handbook of Lubrication and Tribology

2011-07-22

Persian Grammar

2020-01-31

Mastering Machine Learning Algorithms

2011-09-26

Embedded SoPC Design with Nios II Processor and VHDL Examples

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