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the future is here self driving cars are on the streets an algorithm gives you movie and tv recommendations ibm s watson triumphed on jeopardy over puny human brains computer programs can be trained to play atari games but how do all these things work smart machines are no longer science fiction they are being used by

businesses right here and now and every day their capabilities are growing so exactly what is a smart machine everything you ve always wanted to know about smart machines other cognitive computing systems that are able to make decisions and solve problems without human intervention by the end of reading this book you will master the discussion about the following topics in smart machines 01 the rise of smart machines smart machines are built on top of the breakthroughs in computer science the advent of computers in the 20th century laid the modern groundwork for smart machines researchers analysts and technology leaders agree that smart machines will change our lives 02 smart machines definitions why did smart machines emerge now and not later general purpose technology gpt is an economics term for innovation smart machines are devices that can teach themselves how to do things smart machines are built on top of existing technologies the surge of progress in machine learning thanks to big data 03 artificial intelligence of smart machines defense advanced research projects agency darpa projects 04 cognitive computing of smart machines this categorization of cognitive computing and the discussion of the types of applications cognitive technologies are very good at analyzing large amounts of data and identifying anomalies 05 the real world examples of smart machines from deepblue to watson 06 smart machine technologies smart dust virtual personal assistants smart data discovery smart workspace conversational user interfaces smart robots commercial uavs drones autonomous vehicles autonomous vehicles 07 smart machines go to school to learn central to machine learning is the process of feeding training data into a mathematical prediction model the outlier cases are the best chances for learning 08 smart machines are wiser and smarter every day future machine learning and the large increase in available data and the rise of crowdsourcing 09 smart machines speak multi languages one particularly complex problem facing machine translation today is dealing with rare languages 10 artificial intelligence levels support for humans repetitive task automation context knowledge and learning self awareness 11 cognitive task types analyzing numbers words and images analysis performing digital tasks performing physical tasks 12 the great convergence the approach of key vendors to achieve the great convergence the attributes of cognitive architecture people will continue to have advantages over even the smartest machines 13 smart robotics from vision to reality simultaneous localization and mapping funding the robotics projects robots navigate on planets developing robots for government and consumer oriented applications robots in japan robots deployment social acceptance of robots 14 the business benefits of smart machines smart machines will change the way work the use of smart machines in information technology 15 smart machines are efficient what do we really mean by machines replacing jobs 16 smart machines raise challenging questions the impact of smart machines on labor market machines get smarter and more

independent and may not to our advantage 17 the future of smart machines the growing role of industry labs and federal agencies the advance of smart machines cannot be stopped so we must be ready for it

integrated process modeling advanced control and data analytics for optimizing polyolefin manufacturing detailed resource on the why what and how of integrated process modeling advanced control and data analytics explained via hands on examples and workshops for optimizing polyolefin manufacturing integrated process modeling advanced control and data analytics for optimizing polyolefin manufacturing discusses as well as demonstrates the optimization of polyolefin production by covering topics from polymer process modeling and advanced process control to data analytics and machine learning and sustainable design and industrial practice the text also covers practical problems handling of real data streams developing the right level of detail and tuning models to the available data among other topics to allow for easy translation of concepts into practice written by two highly qualified authors integrated process modeling advanced control and data analytics for optimizing polyolefin manufacturing includes information on segment based modeling of polymer processes selection of thermodynamic methods estimation of physical properties for polymer process modeling reactor modeling convergence tips and data fit tool free radical polymerization ldpe eva and ps ziegler natta polymerization hdpe pp llpde and epdm and ionic polymerization sbs rubber improved polymer process operability and control through steady state and dynamic simulation models model predictive control of polyolefin processes and applications of multivariate statistics and machine learning to optimizing polyolefin manufacturing integrated process modeling advanced control and data analytics for optimizing polyolefin manufacturing enables readers to make full use of advanced computer models and latest data analytics and machine learning tools for optimizing polyolefin manufacturing making it an essential resource for undergraduate and graduate students researchers and new and experienced engineers involved in the polyolefin industry

from icy tundras to desert savannahs master the art of landscape and environment design for 2d and 3d digital content make it rain shower your digital scene with a snow storm or develop a believable urban scene with a critical eye for modeling lighting and composition move beyond the limitations of gallery style coffee table books with digital mayhem 3d landscapes offering leading professional techniques groundbreaking inspiration and artistic mastery from some of the greatest digital artists more than just a gallery book each artist has written a breakdown overview with supporting imagery of how they made their piece of work compiled by duncan evans founder and inspiration behind 3dartist magazine start

your mentorship into the world of digital art today with some of the greatest digital artists in the world develop your landscape and background skills beyond the variety of free online tutorials and apply the most up to date techniques like colour and contrast enhancements sharpening composition lighting and more expand your digital canvas to include a variety of software techniques tools and workflows featuring photoshop painter maya and 3ds max examples a source of inspiration for digital artists everywhere more than 50 artists and 700 stunning color images are showcased with an in depth companion website that includes professional source files and further technique based skills development

today the convergence of cutting edge algorithms and actionable insights in business is paramount for success scholars and practitioners grapple with the dilemma of optimizing data to drive efficiency innovation and competitiveness the formidable challenge of effectively harnessing the immense power of intelligent optimization techniques and business analytics only increases as the volume of data grows exponentially and the complexities of navigating the intricate landscape of business analytics becomes more daunting this pressing issue underscores the critical need for a comprehensive solution and intelligent optimization techniques for business analytics is poised to provide much needed answers this groundbreaking book offers an all encompassing solution to the challenges that academic scholars encounter in the pursuit of mastering the interplay between learning algorithms and intelligent optimization techniques for business analytics through a wealth of diverse perspectives and expert case studies it illuminates the path to effectively implementing these advanced systems in real world business scenarios it caters not only to the scholarly community but also to industry professionals and policymakers equipping them with the necessary tools and insights to excel in the realm of data driven decision making

advanced knitting technology provides complete coverage of the latest innovations and developments in knitting technology including emerging methods as well as the latest best practice for classical processes many technologies can be used for the production of cloth such as weaving knitting nonwoven and braiding knitting methods are being selected for a growing range of applications due to the spectacular properties of knitted fabric such as softer tactile quality higher stretchability bulkiness and functional properties that compare favorably with other woven fabrics beyond the well known apparel applications specially designed knitted structures are uniquely suitable for high performance applications like reinforcement for composites medical implants and geotextiles this book presents recent advances in knitting technology including structures properties and applications of knitted fabrics in modern apparel activewear

composites medical textiles and geotextiles with reference to the latest industry practice testing quality and process control methods for knitting technologies are discussed advanced knitting technology covers recent advances in knitting technology properties and performance of knitted structures their applications in apparel and technical fields provides detailed and practical instructions for the sustainable production of knitted textiles including sustainable chemical processing natural dyeing processes and sustainability analysis methods draws on the latest research to discuss the future of knitted apparels and high tech applications of knitted structures as technical textiles explores the latest applications of ai and machine learning to the knitting process

robotics and artificial intelligence in sports medicine and sports services delves into the latest advancements in sports science medicine and event management the book emphasizes the optimization of athlete performance injury prevention and rehabilitation through emerging technologies it highlights the use of wearable sensors iot devices ai powered virtual and augmented reality and predictive models based on large language models which are revolutionizing training and recovery strategies additionally rehabilitation robotics and exoskeletons are enhancing recovery and mobility for clinicians and physiotherapists ai driven drones improve performance monitoring crowd safety and fan engagement while service robots streamline logistics and event management in smart stadiums this book is an invaluable resource for engineers clinicians physiotherapists coaches and policymakers seeking to integrate smart technologies into sports science and medicine presents advanced technologies in sports medicine rehabilitation and coaching offers ai for boosting athlete s performance and injury prediction presents real time monitoring with wearables iot llm vr ar fitness trackers and drones explores exoskeletons and robotics for recovery along with service robots in safe and smart stadiums

a z guide for maximum cost reduction and increased equipment reliability to remain globally competitive today s manufacturing operations have greatly improved but there is one last link in the advancement evolution the reliability of manufacturing equipment must be improved in order to maximize the productive life of the equipment eliminate uns

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new technologies are changing the way that tax administrations taxpayers and their advisers interact leading to a reduction in the compliance cost for taxpayers a level playing field for large and small businesses and fewer opportunities to engage in aggressive tax practices although entering a new world where processes are supported by machines inevitably disrupts traditional ways of working the contributors to this indispensable book reveal the enormous potential of tax technology to positively transform tax compliance clearly showing both government and business how to manage the transition from the old to the new with detailed treatment of the technology available in the tax field the authors describe how to secure its benefits in such ways as the following electronic balance sheets and invoices automated transmission to tax authorities innovative analytics applications blockchain in tax law processes process mining in vat real time reporting with cryptography and meeting the challenges to taxpayers rights to privacy and personal data protection the contributions draw on an international conference held under the auspices of the digital economy taxation network at the vienna university of economics and business in december 2020 the perspective throughout focuses on how to achieve better tax compliance at a lower cost for this reason this full scale practical guide on how to adapt tax law to new technologies and how to apply tax tech processes in practice will be welcomed by tax practitioners tax administrations and academics across the entire tax community

helps you learn how to use your embroidery machine to its fullest potential this title contains tips and techniques for producing creative designs

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