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Mathematical Introduction To General Relativity, A (Second Edition) Amol Sasane, 2024-12-20 The book aims to give a mathematical presentation of the theory of general relativity that is spacetime geometry based gravitation theory to advanced undergraduate mathematics students Mathematicians will find spacetime physics presented in the definition theorem proof format familiar to them The given precise mathematical definitions of physical notions help avoiding pitfalls especially in the context of spacetime physics describing phenomena that are counter intuitive to everyday experiences In the first part the differential geometry of smooth manifolds which is needed to present the spacetime based gravitation theory is developed from scratch Here many of the illustrating examples are the Lorentzian manifolds which later serve as spacetime models This has the twofold purpose of making the physics forthcoming in the second part relatable and the mathematics learnt in the first part less dry The book uses the modern coordinate free language of semi Riemannian geometry Nevertheless to familiarise the reader with the useful tool of coordinates for computations and to bridge the gap with the physics literature the link to coordinates is made through exercises and via frequent remarks on how the two languages are related In the second part the focus is on physics covering essential material of the 20th century spacetime based view of gravity energy momentum tensor field of matter field equation spacetime examples Newtonian approximation geodesics tests of the theory black holes and cosmological models of the universe Prior knowledge of differential geometry or physics is not assumed The book is intended for self study and the solutions to all the 283 exercises are included The second edition corrects errors from the first edition and includes 60 new exercises 10 new remarks 29 new figures some of which cover auxiliary topics that were omitted in the first edition

Generative AI and Implications for Ethics, Security, and Data Management Gomathi Sankar, Jeganathan, David, Arokiaraj, 2024-08-21 As generative AI rapidly advances with the field of artificial intelligence its presence poses significant ethical security and data management challenges While this technology encourages innovation across various industries ethical concerns regarding the potential misuse of AI generated content for misinformation or manipulation may arise The risks of AI generated deepfakes and cyberattacks demand more research into effective security tactics The supervision of datasets required to train generative AI models raises questions about privacy consent and responsible data management As generative AI evolves further research into the complex issues regarding its potential is required to safeguard ethical values and security of people s data Generative AI and Implications for Ethics Security and Data Management explores the implications of generative AI across various industries who may use the tool for improved organizational development The security and data management benefits of generative AI are outlined while examining the topic within the lens of ethical and social impacts This book covers topics such as cybersecurity digital technology and cloud storage and is a useful resource for computer engineers IT professionals technicians sociologists healthcare workers researchers scientists and academicians

Strategic Business Influencer Paige Velasquez

Budde,2025-11-25 Don't just follow trends become someone who shapes them This essential guide offers a six step approach to brand building and provides the tools for any leader to compete with giants even with a small budget Strategic Business Influencers may not be as famous as mainstream celebrities but they are converting the intangible benefits of influence into significant impact on their revenue and profits In an increasingly skeptical environment these leaders build trust and credibility previously reserved for big name CEOs and target precisely the right audience to build strong scalable relationships with their customers investors employees and partners Zilker Media CEO Paige Velasquez Budde a veteran marketer entrepreneur and speaker walks leaders through her six step process for aspiring Strategic Business Influencers offering them a powerful unified strategy to build big brands Entrepreneurs corporate leaders and aspiring business owners alike will gain the tools to transform their professional image discovering how to Reinvent their brand by creating a compelling Influence ID and evaluating their current market image to ensure they stand out Enhance their relationship management by developing high touch relationships with customers and stakeholders to convert them into loyal advocates Leverage today's digital tools by mastering the art of generating buzz through PR and content creation using the many free or low cost tools now available Drawing on case studies from diverse industries from regional banking to subfloor manufacturing women's undergarments to tech software development The Strategic Business Influencer will help you build undeniable leverage for a brand no matter the industry

Hands-On Artificial Intelligence on Amazon Web Services

Subhashini Tripuraneni,Charles Song,2019-10-04 Perform cloud based machine learning and deep learning using Amazon Web Services such as SageMaker Lex Comprehend Translate and Polly Key FeaturesExplore popular machine learning and deep learning services with their underlying algorithmsDiscover readily available artificial intelligence AI APIs on AWS like Vision and Language ServicesDesign robust architectures to enable experimentation extensibility and maintainability of AI appsBook Description From data wrangling through to translating text you can accomplish this and more with the artificial intelligence and machine learning services available on AWS With this book you'll work through hands on exercises and learn to use these services to solve real world problems You'll even design develop monitor and maintain machine and deep learning models on AWS The book starts with an introduction to AI and its applications in different industries along with an overview of AWS artificial intelligence and machine learning services You'll then get to grips with detecting and translating text with Amazon Rekognition and Amazon Translate The book will assist you in performing speech to text with Amazon Transcribe and Amazon Polly Later you'll discover the use of Amazon Comprehend for extracting information from text and Amazon Lex for building voice chatbots You will also understand the key capabilities of Amazon SageMaker such as wrangling big data discovering topics in text collections and classifying images Finally you'll cover sales forecasting with deep learning and autoregression before exploring the importance of a feedback loop in machine learning By the end of this book you will have the skills you need to implement AI in AWS through hands on exercises that cover all aspects of the ML

model life cycle What you will learn Gain useful insights into different machine and deep learning models Build and deploy robust deep learning systems to production Train machine and deep learning models with diverse infrastructure specifications Scale AI apps without dealing with the complexity of managing the underlying infrastructure Monitor and Manage AI experiments efficiently Create AI apps using AWS pre trained AI services Who this book is for This book is for data scientists machine learning developers deep learning researchers and artificial intelligence enthusiasts who want to harness the power of AWS to implement powerful artificial intelligence solutions A basic understanding of machine learning concepts is expected

Introduction Frederick McCormick, 1907 *Introduction* F. McCormick, 1907 *Introduction to General Topology* Helen Frances Cullen, 1967 *Introduction, Glossary and Indexes*, 1894 *Introduction, glossary, and indexes* Geoffrey Chaucer, 1894 *An Introduction to the History of Medicine* Fielding Hudson Garrison, 1922

The Complete Works of Geoffrey Chaucer: Introduction, glossary, and indexes Geoffrey Chaucer, 1894 *Introduction to General Topology* George L. Cain, 1994 This introduction to point set topology contains material on hyperspaces malfunctions and dimension topics important in the study of fractal geometry and chaotic dynamics The book also includes examples topics and applications It aims to motivate students to think abstractly

Data Engineering Best Practices Richard J. Schiller, David Larochelle, 2024-10-11 Explore modern data engineering techniques and best practices to build scalable efficient and future proof data processing systems across cloud platforms Key Features Architect and engineer optimized data solutions in the cloud with best practices for performance and cost effectiveness Explore design patterns and use cases to balance roles technology choices and processes for a future proof design Learn from experts to avoid common pitfalls in data engineering projects Purchase of the print or Kindle book includes a free PDF eBook Book Description Revolutionize your approach to data processing in the fast paced business landscape with this essential guide to data engineering Discover the power of scalable efficient and secure data solutions through expert guidance on data engineering principles and techniques Written by two industry experts with over 60 years of combined experience it offers deep insights into best practices architecture agile processes and cloud based pipelines You ll start by defining the challenges data engineers face and understand how this agile and future proof comprehensive data solution architecture addresses them As you explore the extensive toolkit mastering the capabilities of various instruments you ll gain the knowledge needed for independent research Covering everything you need right from data engineering fundamentals the guide uses real world examples to illustrate potential solutions It elevates your skills to architect scalable data systems implement agile development processes and design cloud based data pipelines The book further equips you with the knowledge to harness serverless computing and microservices to build resilient data applications By the end you ll be armed with the expertise to design and deliver high performance data engineering solutions that are not only robust efficient and secure but also future ready What you will learn Architect scalable data solutions within a well architected framework Implement agile software development processes tailored to your organization s needs Design

cloud based data pipelines for analytics machine learning and AI ready data products Optimize data engineering capabilities to ensure performance and long term business value Apply best practices for data security privacy and compliance Harness serverless computing and microservices to build resilient scalable and trustworthy data pipelines Who this book is for If you are a data engineer ETL developer or big data engineer who wants to master the principles and techniques of data engineering this book is for you A basic understanding of data engineering concepts ETL processes and big data technologies is expected This book is also for professionals who want to explore advanced data engineering practices including scalable data solutions agile software development and cloud based data processing pipelines

The Complete Works of Geoffrey Chauncer: Introduction, glossary, and indexes Geoffrey Chaucer, 1894

Azure Serverless Computing Cookbook Praveen Kumar Sreeram, 2017-08-17 Over 50 recipes to help you build applications hosted on Serverless architecture using Azure Functions About This Book Enhance Azure Functions with continuous deployment using Visual Studio Team Services Learn to deploy and manage cost effective and highly available serverless applications using Azure Functions This recipe based guide will teach you to build a robust serverless environment Who This Book Is For If you are a Cloud administrator architect or developer who wants to build scalable systems and deploy serverless applications with Azure functions then this book is for you Prior knowledge and hands on experience with core services of Microsoft Azure is required What You Will Learn Develop different event based handlers supported by serverless architecture supported by Microsoft Cloud Platform Azure Integrate Azure Functions with different Azure Services to develop Enterprise level applications Get to know the best practices in organizing and refactoring the code within the Azure functions Test troubleshoot and monitor the Azure functions to deliver high quality reliable and robust cloud centric applications Automate mundane tasks at various levels right from development to deployment and maintenance Learn how to develop stateful serverless applications and also self healing jobs using Durable Functions In Detail Microsoft provides a solution to easily run small segment of code in the Cloud with Azure Functions Azure Functions provides solutions for processing data integrating systems and building simple APIs and microservices The book starts with intermediate level recipes on serverless computing along with some use cases on benefits and key features of Azure Functions Then we ll deep dive into the core aspects of Azure Functions such as the services it provides how you can develop and write Azure functions and how to monitor and troubleshoot them Moving on you ll get practical recipes on integrating DevOps with Azure functions and providing continuous integration and continuous deployment with Visual Studio Team Services It also provides hands on steps and tutorials based on real world serverless use cases to guide you through configuring and setting up your serverless environments with ease Finally you ll see how to manage Azure functions providing enterprise level security and compliance to your serverless code architecture By the end of this book you will have all the skills required to work with serverless code architecture providing continuous delivery to your users Style and approach This recipe based guide explains the different features of Azure Function by taking a real

world application related to a specific domain You will learn how to implement automation and DevOps and discover industry best practices to develop applications hosted on serverless architecture using Azure functions

An Introduction to Analysis James R. Kirkwood,1995 This text provides an introduction to analysis of real valued functions of one variable The author has deliberately paced this text more slowly and paid particular attention to the presentation of examples as ways of easing the student s transition from computational to theoretical mathematics Kirkwood s direct though less formal writing style helps make concepts accessible He presents material in such a way that students can develop an intuition for the subject while acquiring experience in constructing proofs

Light from the East; or, The witness of the monuments, an introduction to the study of biblical archaeology. [With] A list of the proper names in the Old and New testaments Charles James Ball,1899

Columbia University Contributions to Anthropology Columbia University,1914 **LOWER UMPQUA TEXTS** LEO J. FRACHTENBERG,1914 Contributions to Anthropology Columbia University,1914

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