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algorithms are ubiquitous in the contemporary technological world and they ultimately consist of finite sequences of instructions used to accomplish tasks with necessary input values this book analyses the top performing algorithms in areas as diverse as big data artificial intelligence optimization techniques and cloud cyber security systems in order to explore their power and limitations

digital blockchain big data artificial intelligence and virtual reality in healthcare ecosystem is a book that explores the revolutionary impact of blockchain big data and artificial intelligence ai on the pharmaceutical and healthcare sectors the book discusses ai big data and

their applications in drug research clinical trials regulatory compliance and post marketing surveillance the book also discusses education and training in smart pharma demonstrating the potential of ai big data and machine learning to improve workforce capacities the book discusses intellectual property and data privacy issues the legislative framework for ai adoption ethical considerations and future trends in ai enabled drug research manufacturing and healthcare innovation it is a valuable resource for healthcare professionals industrial experts and academicians offering theoretical and practical insights

the short stories and novellas are among my earliest science fiction works writing in alaska in 1987 i made a couple of trips to europe while enrolled in an english writing course at the university of alaska at juneau most of these stories were written at or at least mention wrangell a small town 150 miles to the south of the state capitol at juneau 140 000 words

the new paradigm industry 5 0 promises great shifts not only in industry but also in business and consumption models with the help of data science and internet of things manufacturers focus on delivering in real time and customers will benefit from personalized products robots and cobots will collaborate with the humans this book explains various facets of industry 5 0 focusing on its applications on medical research and manufacturing

the distributed transfer function method dtfm is an analytical method for modeling analysis and control of a class of distributed parameter systems that are governed by partial differential equations and that can be defined over multiple interconnected subregions in this comprehensive reference the authors show how the dtfm delivers highly accurate analytical solutions in both the frequency domain and the time domain while offering a versatile modeling technique for various problems in mechanical civil aerospace electrical chemical biomechanical and vehicle engineering

the book artificial intelligence for healthcare machine learning and diagnostics explores how ai and machine learning are reshaping healthcare focusing on diagnosis patient care and treatment across various specialties it covers ai applications in fields such as cardiovascular care orthopedics emergency medicine ent and remote patient monitoring additionally the book discusses ai's transformative role in brain tumor surgery dentistry and elder care showcasing its power to personalize therapies predict outcomes and enhance outpatient efficiency key chapters examine ai in pathology specifically in image analysis and digital pathology and its expanding influence in maternal and fetal health this essential guide provides healthcare practitioners researchers clinical experts and students with

insights into ai s practical uses and future potential serving as a valuable reference for ai driven diagnostic advancements and healthcare solutions

this book highlights how optimized big data applications can be used for patient monitoring and clinical diagnosis in fact iot based applications are data driven and mostly employ modern optimization techniques the book also explores challenges opportunities and future research directions discussing the stages of data collection and pre processing as well as the associated challenges and issues in data handling and setup

this work presents the guiding principles of integral transforms needed for many applications when solving engineering and science problems as a modern approach to laplace transform fourier series and z transforms it is a valuable reference for professionals and students alike

this book combines elementary theory from computer science with real world challenges in global geodetic observation based on examples from the geodetic observatory wettzell germany it starts with a step by step introduction to developing stable and safe scientific software to run successful software projects the use of software toolboxes is another essential aspect that leads to the application of generative programming an example is a generative network middleware that simplifies communication one of the book s main focuses is on explaining a potential strategy involving autonomous production cells for space geodetic techniques the complete software design of a satellite laser ranging system is taken as an example such automated systems are then combined for global interaction using secure communication tunnels for remote access the network of radio telescopes is used as a reference combined observatories form coordinated multi agent systems and offer solutions for operational aspects of the global geodetic observing system ggos with regard to industry 4 0

a complete full color guide to the 2012 international building code updated to reflect the international code council 2012 international building code this time saving resource makes it easy to understand and apply complex ibc requirements and achieve compliance more than 600 full color illustrations help to clarify the application and intent of many code provisions with an emphasis on the structural and fire and life safety provisions the 2012 international building code handbook provides the information you need to get construction jobs done right on time and up to the requirements of the 2012 ibc achieve full compliance with the 2012 ibc scope and administration

definitions use and occupancy classification special detailed requirements based on use and occupancy general building heights and areas types of construction fire and smoke protection features interior finishes fire protection systems means of egress accessibility interior environment exterior walls roof assemblies and rooftop structures structural loads and design special inspections and tests soils and foundations concrete aluminum masonry steel wood glass and glazing gypsum board and plaster plastic plumbing fixture count elevators and conveying systems special construction encroachments in the public right of way safeguards during construction existing structures referenced standards

this document is part 2 of 12 parts of the official triennial compilation and publication of the adoptions amendments and repeal of administrative regulations to california code of regulations title 24 also referred to as the california building standards code this part is known as the california building code preface

an essential guide to the treatment and management of lung cancer lung cancer remains the leading cause of cancer deaths worldwide attributed mostly to environmental and behavioral factors however a diagnosis of lung cancer no longer means inevitable death the new standards of care and a greater understanding of the etiology and biology of the disease has led to breakthroughs in patient survival rates that were not seen in the past standards of care lung cancer provides a solid foundation in the new principles approaching this disease presented in an accessible quick to digest format and written by leading experts in a variety of medical fields this authoritative guide covers all the new procedures and treatment options and the latest advances in diagnosis and treatment including immunotherapy and oncogene inhibition and more this is an essential resource for both practitioners and students studying for the boards or certification features covers the most current treatments continuous online updates on guidelines new therapies and studies includes checklists case studies learning objectives and clinical pearls bibliography with listings of studies and trials serves as an ideal resource for practice and board review

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