

The Hidden Dimension

The Hidden DimensionThe Hidden DimensionThe Hidden DimensionThe GOD EntityThe Hidden DimensionData-driven modeling and optimization in fluid dynamics: From physics-based to machine learning approachesRussian Fractals in Indigenous ArtifactsShaping an Inclusive Energy TransitionCausal AIComputer Vision – ECCV 2024Beyond Einstein's Unified FieldIntroduction to Systems BiologyCourse of Study in Vocational SubjectsThe Hidden Dimension [sound Recording]COVID-19: Integrating artificial intelligence, data science, mathematics, medicine and public health, epidemiology, neuroscience, and biomedical science in pandemic managementSPSS Base 7.0 for Windows User's GuideAshley Somers and the Hidden DimensionMechanical DrawingMechanical DrawingNonverbal Communication Systems Edward Twitchell Hall Edward T. Hall Edward Twitchell Hall Scott S Gordon Marc Raeff Michel Bergmann Abdul Karim Bangura Margot P. C. Weijnen Robert Osazuwa Ness Ale Leonardis John Brandenburg, Ph.D. Sangdun Choi Detroit Public Schools. Department of Instruction, Teacher Training, and Research Edward Twitchell Hall Reza Lashgari SPSS Inc H. Lynn Bowers Willard Walter Ermeling Philip W. Hutton Dale G. Leathers

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Robert Osazuwa Ness Ale Leonardis John Brandenburg, Ph.D. Sangdun Choi Detroit Public Schools. Department of Instruction, Teacher Training, and Research Edward Twitchell Hall Reza Lashgari SPSS Inc H. Lynn Bowers Willard Walter Ermeling Philip W. Hutton Dale G. Leathers

an anthropologist examines man's use of space in public and in private

people like to keep certain distances between themselves and other people or things and this invisible bubble of space that constitutes each person's territory is one of the key dimensions of modern society edward t hall author of the silent language introduced the science of proxemics to demonstrate how man's use of space can affect personal and business relations cross cultural interactions architecture city planning and urban renewal one of the few extraordinary books about mankind's future which should be read by every thoughtful person chicago tribune this is a book of impressive genius replete with unusually sharp observations richard j neutra landscape architecture

theoretical physics has reached an impasse that many feel is a dead end as the odds of finding evidence for supersymmetry starts to fade new theories have emerged such as the multiverse extra dimensions and dimensional transmutation these theories attempt to explain the inexplicable yet at the same time fail to explain the explainable many physicists are left frustrated and wondering aloud how could we have travelled so far down the wrong path any intelligent fool can make things bigger and more complex it takes a touch of genius and a lot of courage to move in the opposite direction albert einstein engineers know that the right answer is usually a simple one as einstein would put it the grand aim of all science is to cover the greatest number of empirical facts by logical deduction from the smallest number of hypotheses or axioms gordon's theory of everything starts with only two postulates the massless bosons called gordon omnipresent dots or god entities and the e_0 energy associated with their initial alignment these primordial postulates are the only building blocks of a model that explains the inevitable course of events that created our universe the mathematics created within this process corrects the postulates used to develop the theories of relativity and quantum mechanics which can finally be united and subsequently applied to

the infinitesimally small and the infinitely large we currently use parameters such as distance time straight lines velocity electric charge energy fields and mass gordon s theory of everything begins at a time when none of these parameters existed prior to the big bang it takes nothing for granted as a predestined process unfolds creating these parameters as they come into existence defined by the evolving mathematics the gordon model reveals that energy exists in three separate gordon energy states described by the god equation the interaction between these energy states result in the formation of energy fields and the creation of all forces most importantly the structure of space time from the previously unrecognized g0 energy state provides the solid foundation upon which we are able to build a new understanding of everything in the universe the simplicity and elegance of gordon s theory of everything will astonish everyone as everything falls into place the purpose of this book is to put the field of physics on a theoretically sound foundation the structures of the first few fundamental particles and the energy fields they generate are just the beginning you will have the opportunity to make major contributions starting where this book leaves off at the up quark and electron the race is on to find the internal structure of a neutron and all the particles of the standard model don t be left behind be among the first to read scott s gordon s the god entity gordon s theory of everything

this book is the first comprehensive work on russian fractals in indigenous artifacts while existing works focus on universal phenomena such as liquid crystal or finance none explore the intersection between fractals and russia russian fractals in indigenous artifacts therefore investigates how indigenous russian cultures have a wonderful fractal heritage that was originally tied to socially just and ecologically sustainable social practices including those of indigenous northern groups such as the yakut fractal designs originally allowed unalienated value both human and nonhuman to be visible thereby enabling just and sustainable living this book also examines how the tsarist elite encouraged the creation of unique creative masterpieces developing and strengthening traditional crafts and art of indigenous people hence fabergé or imperial architecture today the challenge for contemporary russia is to reestablish the relationship between the social and ecological sustainability of indigenous cultures and practices for which we can now provide modeling and analysis lay attempts at

this have only limited success as they have based the attempts on a purely religious basis which recognizes the ecological aspects but often succumbs to authoritarian nationalism however the freely accession of indigenous peoples to russia for the sake of national liberation has had a positive effect on enriching them with spirituality and creativity by fractal artifacts through friendly exchanges with one another in russian fractals in indigenous artifacts bangura and zhigun express why there is a need for a forward thinking fractal renaissance in russia bringing together contemporary computational and scientific analyses with these ecologically and socially sustainable traditions

this open access book makes a case for a socially inclusive energy transition and illustrates how engineering and public policy professionals can contribute to shaping an inclusive energy transition building on a socio technical systems engineering approach accomplishing a net zero greenhouse gas emissions economy in 2050 is a daunting challenge this book explores the challenges of the energy transition from the perspectives of technological innovation public policy social values and ethics it elaborates on two particular gaps in the design of public policy interventions focused on decarbonization of the energy system and discusses how both could be remedied first the siloed organization of public administration fails to account for the many interdependencies between the energy sector the mobility system digital infrastructure and the built environment cross sector coordination of policies and policy instruments is needed to avoid potentially adverse effects upon society and the economy which may hamper the energy transition rather than accelerate it second energy and climate policies pay insufficient attention to the social values at stake in the energy transition in addressing these gaps this book intends to inspire decision makers engaged in the energy transition to embrace the transition as an opportunity to bring a more inclusive society into being

build ai models that can reliably deliver causal inference how do you know what might have happened had you done things differently causal ai gives you the insight you need to make predictions and control outcomes based on causal relationships instead of pure correlation so you can make precise and timely interventions causal ai is a practical introduction to building ai models that can reason about causality in causal ai you will learn how to build causal reinforcement learning algorithms implement causal inference with modern probabilistic

machine tools such as pytorch and pyro compare and contrast statistical and econometric methods for causal inference set up algorithms for attribution credit assignment and explanation convert domain expertise into explainable causal models author robert osazuwa ness a leading researcher in causal ai at microsoft research brings his unique expertise to this cutting edge guide his clear code first approach explains essential details of causal machine learning that are hidden in academic papers everything you learn can be easily and effectively applied to industry challenges from building explainable causal models to predicting counterfactual outcomes foreword by lindsay edwards about the technology traditional ml models can't answer causal questions like why did that happen or what factors should i change to get a particular outcome this book blends advanced statistical methods computational techniques and new algorithms to create machine learning systems that automate the process of causal inference about the book causal ai introduces the tools techniques and algorithms of causal reasoning for machine learning this unique book masterfully blends bayesian and probabilistic approaches to causal inference with practical hands on examples in python along the way you'll learn to integrate causal assumptions into deep learning architectures including reinforcement learning and large language models you'll also use pytorch pyro and other ml libraries to scale up causal inference what's inside end to end causal inference with dowhy deep bayesian causal generative ai models a code first tour of the do calculus and pearl's causal hierarchy code for fine tuning causal large language models about the reader for data scientists and machine learning engineers examples in python about the author robert osazuwa ness is an ai researcher at microsoft research and professor at northeastern university he is a contributor to open source causal inference packages such as python's dowhy and r's bnlearn

table of contents part 1 1 why causal ai 2 a primer on probabilistic generative modeling part 2 3 building a causal graphical model 4 testing the dag with causal constraints 5 connecting causality and deep learning part 3 6 structural causal models 7 interventions and causal effects 8 counterfactuals and parallel worlds 9 the general counterfactual inference algorithm 10 identification and the causal hierarchy part 4 11 building a causal inference workflow 12 causal decisions and reinforcement learning 13 causality and large language models

the multi volume set of Incs books with volume numbers 15059 up to 15147 constitutes the refereed proceedings of the 18th european conference on computer vision eccv 2024 held in milan italy during september 29 october 4 2024 the 2387 papers presented in these proceedings were carefully reviewed and selected from a total of 8585 submissions they deal with topics such as computer vision machine learning deep neural networks reinforcement learning object recognition image classification image processing object detection semantic segmentation human pose estimation 3d reconstruction stereo vision computational photography neural networks image coding image reconstruction motion estimation

veteran plasma physicist john brandenburg reveals the new theory that finally accomplishes what einstein failed to do the gem unification theory proves the mathematical and physical interrelation of the forces of gravity and electromagnetism this theory vindicates einstein s dedication to unifying the fields in the final labor of his life his quest became legendary then mythic until the whole idea was dismissed as myth by other physicists the gravity electromagnetism problem pursued by einstein until his death became regarded like the ancient greek problem of squaring the circle an epic puzzle with no solution but the other physicists were wrong as brandenburg shows it turns out the fields can be unified the circle can be squared and this has vast implications for the future of humankind brandenburg starts out by tracing the evolution of thought on the two long term forces of nature gravity and electromagnetism from ancient times to the modern day he shows the intricate interweaving of einstein s work with that of other physicists including sarkharov and his zero point theory of gravity and the hidden fifth dimension of kaluza and klein he also traces the surprising hidden influence of nikola tesla on einstein s life this book shows how despite einstein s errors in the details the successful gem unification theory is built on his basic hypothesis that gravity and electromagnetic forces could be unified and that both controlled gravity and a new view of the cosmos follow hydrogen the basic building block of the universe can be unified with the vacuum itself the universe is self renewing a sort of evergreen cosmos brandenburg describes control of space time geometry through electromagnetism and states that faster than light travel will be possible in the future anti gravity through electromagnetism is possible which upholds the basic flying saucer design utilizing the tesla vortex a must read for any person

interested in ufos and leading edge physics see the physics used at area 51 explained

introduction to systems biology is an introductory text for undergraduate and graduate students who are interested in comprehensive biological systems the authors provide a broad overview of the field using key examples and typical approaches to experimental design the volume begins with an introduction to systems biology and then details experimental omics tools other sections introduce the reader to challenging computational approaches to help understand biological dynamic systems the final sections of the volume provide ideas for theoretical and modeling optimization in systemic biological researches presenting most algorithms as implementations including an up to date full range of bioinformatic programs and available successful applications informative and cutting edge this volume presents a clear and intuitive illustration of the biological systemic approaches and introduces ideal computational methods for research introduction to systems biology is an indispensable resource providing a first glimpse into the state of the art in systems biology

in ashley somers and the hidden dimension an invisible shield that blocks magic is advancing across pargola towards wichen searching for the origin of the magic shield scouts discover that general arred has left baaden with an army bound to destroy all that is good ashley and her parents must protect the citizens of wichen at all costs without magic how do they stop the largest army pargola has ever seen

nonverbal communication systems is designed to meet these specific criteria the contents should readily suggest a direct and defensible format for organizing a course in nonverbal communication perhaps more importantly this book provides students with practical and accurate tests of their encoding and decoding capacity whether they are using facial communication vocalic communication tactile communication or any other of the nonverbal systems presented in this book

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