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Do Dice Play God?

2019-06-06

uncertainty is everywhere it lurks in every consideration of the future the weather the economy the sex of an unborn child even quantities we think that we know such as populations or the transit of the planets contain the possibility of error it s no wonder that throughout that history we have attempted to produce rigidly defined areas of uncertainty we prefer the surprise party to the surprise asteroid we began our quest to make certain an uncertain world by reading omens in livers tea leaves and the stars however over the centuries driven by curiosity competition and a desire be better gamblers pioneering mathematicians and scientists began to reduce wild uncertainties to tame distributions of probability and statistical inferences but even as unknown unknowns became known unknowns our pessimism made us believe that some problems were unsolvable and our intuition misled us worse as we realized how omnipresent and varied uncertainty is we encountered chaos quantum mechanics and the limitations of our predictive power bestselling author professor ian stewart explores the history and mathematics of uncertainty touching on gambling probability statistics financial and weather forecasts censuses medical studies chaos quantum physics and climate he makes one thing clear a reasonable probability is the only certainty

Does God Play Dice?

1997-06-26

since the dramatic discovery of the mathematical concept of chaos in 1989 the controversy of its contents has settled down this revised edition of does god play dice takes a fresh look at its achievements and potential with a new preface and three completely new chapters it includes the latest practical applications of chaos theory such as developing intelligent heart pacemakers all this provides a fascinating new answer to einstein s question which provided the title of this book

Does God Play Dice?

1989

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2014-06-10

which mathematician elaborated a crucial concept the night before he died in a duel who funded his maths and medical career through gambling and chess who learned maths from her wallpaper ian stewart presents the extraordinary lives and amazing discoveries of twenty five of history s greatest mathematicians from archimedes and liu hui to benoit mandelbrot and william thurston his subjects are the inspiring individuals from all over the world who have made crucial contributions to mathematics they include the rediscovered geniuses srinivasa ramanujan and emmy noether alongside the towering figures of muhammad al khwarizmi inventor of the algorithm pierre de fermat isaac newton carl friedrich gauss nikolai ivanovich lobachevsky bernhard reimann precursor to einstein henri poincar ada lovelace arguably the first computer programmer kurt gdel and alan turing ian stewart s vivid accounts are fascinating in themselves and taken together cohere into a riveting history of key steps in the development of mathematics

Does God Play Dice?

2017-08-10

knowing that the most exciting math is not taught in school professor ian stewart has spent years filling his cabinet with intriguing mathematical games puzzles stories and factoids intended for the adventurous mind this book reveals the most exhilarating oddities from professor stewart s legendary cabinet inside you will find hidden gems of logic geometry and probability like how to extract a cherry from a cocktail glass harder than you think a pop up dodecahedron and the real reason why you can t divide anything by zero scattered among these are keys to fermat s last theorem the poincaré conjecture chaos theory and the p np problem you ll win a million dollars if you solve it you never know what enigmas you ll find in the stewart cabinet but they re sure to be clever mind expanding and delightfully fun

Significant Figures

2009-01-06

a bestselling author tries to rehabillitate a much maligned field

Professor Stewart's Cabinet of Mathematical Curiosities

2021-08-19

monthly current affairs magazine from a christian perspective with a focus on politics society economics and culture

What S the Use (air/exp)

1990-12

ian stewart author of the bestselling professor stewart s cabinet of mathematical curiosities presents a new and magical mix of games puzzles paradoxes brainteasers and riddles he mingles these with forays into ancient and modern mathematical thought appallingly hilarious mathematical jokes and enquiries into the great mathematical challenges of the present and past amongst a host of arcane and astonishing facts about every kind of number from irrational or imaginary to complex or cuneiform we find out how to organise chaos how matter balances anti matter how to turn a sphere inside out without creasing it why you can t comb a hairy ball how to calculate pi by observing the stars and we get some tantalising glimpses of the maths of life and the universe mind stretching enlightening and endlessly amusing professor stewart s new entertainment will stimulate delight and enthral

ThirdWay

2010-12-09

accompanying dvd contains arthur c clarke s colours of infinity 53 min c1995 and infinit ca 24 min

Professor Stewart's Hoard of Mathematical Treasures

2004

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The Colours of Infinity

2022-10-24

join the raspberry revolution with these fun and easy pi projects the raspberry pi has opened up a whole new world of innovation for

2023-09-29

4/14

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from lyrical descriptions of the first pulses of life on the shores of the primordial oceans to rhapsodic contemplations of the beautiful intimacy of butterfly wings and the artful ripples of angel fish scales life s other secret offers a new vision of the beauty and elegance of the natural world and a revolutionary perspective on the forces that govern the life around us 80 illustrations 20 photos



1998-01-05

focuses on a very significant psycho cultural concept that of agonistics or contestatory creativity with ramifications in several areas of the postmodern debate cultural philosophy psychologies of race gender and the body and narratology

Life's Other Secret

1997-01-01

this book presents in a compact form the program carried out in introductory statistics courses and discusses some essential topics for research activity such as monte carlo simulation techniques methods of statistical inference best fit and analysis of laboratory data all themes are developed starting from fundamentals highlighting their applicative aspects up to the detailed description of several cases particularly relevant for technical and scientific research the text is dedicated to university students in scientific fields and to all researchers who have to solve practical problems by applying data analysis and simulation procedures the r software is adopted throughout the book with a rich library of original programs accessible to the readers through a website

Agonistics

2022-12-06

from ancient babylon to the last great unsolved problems ian stewart brings us his definitive history of mathematics in his famous straightforward style professor stewart explains each major development from the first number systems to chaos theory and considers how each affected society and changed everyday life forever maintaining a personal touch he introduces all of the outstanding mathematicians of history from the key babylonians greeks and egyptians via newton and descartes to fermat babbage and godel and demystifies math s key concepts without recourse to complicated formulae written to provide a captivating historic narrative for the non mathematician taming the infinite is packed with fascinating nuggets and quirky asides and contains 100 illustrations and diagrams to illuminate and aid understanding of a subject many dread but which has made our world what it is today

Probability, Statistics and Simulation

2015-04-07

in this ambitious study david corfield attacks the widely held view that it is the nature of mathematical knowledge which has shaped the way in which mathematics is treated philosophically and claims that contingent factors have brought us to the present thematically limited discipline illustrating his discussion with a wealth of examples he sets out a variety of approaches to new thinking about the philosophy of mathematics ranging from an exploration of whether computers producing mathematical proofs or conjectures are doing real mathematics to the use of analogy the prospects for a bayesian confirmation theory the notion of a mathematical research programme and the ways in which new concepts are justified his inspiring book challenges both philosophers and mathematicians to develop the broadest and richest philosophical resources for work in their disciplines and points clearly to the ways in which this can be done

Taming the Infinite

2003-04-24

dare to think this was the catch cry of the enlightenment over 300 years ago when the breakaway from religion towards a more secular society began isaac newton led the scientific revolution which transformed society for the next 300 years with progress not then dreamed of stephen hawking revealed a new cosmology and linked einstein s relativity to small scale quantum mechanics yet what was the mind set of newton s age compared to hawking s age what were the changes in the mind sets of society and philosophy during those 300 years and were they all linked to science this book represents a slice of the history of ideas science and philosophy mixed with their personal lives against how science mathematics and philosophy evolved over those 300 years revealed are the truly astonishing stories and ideas of five of the greatest thinkers who ever lived who provided us rich insights into the cosmos their stories class them as true founders of scientific revolutions battlers with feats of endurance and triumphs to rise to great heights through the personal tragedies of curie and hawking to the intellectual battles fought by einstein newton and leibniz these five scientists inspire us and enrich our ideas

Towards a Philosophy of Real Mathematics

2024-05-28

stewart is britain s most brilliant and prolific populariser of maths alex bellos the instructive equivalent of a michelin starred tasting menu tim radford many people think mathematics is useless they re wrong in the uk the 2.8 million people employed in mathematical science occupations contributed 208 billion to the economy in a single year that s 10 per cent of the workforce contributing 16 per cent of the economy what s the use asks why there is such a vast gulf between public perceptions of mathematics and reality it shows how mathematics is vital often in surprising ways behind the scenes of daily life how politicians pick their voters how an absurd little puzzle solved 300 years

ago leads to efficient methods for kidney transplants and how a bizarre infinitely wiggly curve helps to optimise deliveries to your door

How Great Thinkers Transformed Our Ideas

2021-08-19

instant maths ideas data numeracy and ict contains a broad range of flexible teaching ideas for key stage 3 teachers the resource features matching to the ks3 maths framework and photocopiable resource pages

What's the Use?

2003

man s complex relationship to planet earth is explored in this second edition of the landmark anthology edited by frank rhodes and bruce malamud this volume provides a portrait of the planet as experienced not just by scientists but by artists aviators poets philosophers novelists historians and sociologists as well a unique collection that bridges the gap between science and humanities contains writings by scientists artists aviators poets philosophers novelists historians and sociologists including charles darwin dane picard rachel carson john muir mark twain and archibald geikie represents the human experience over the centuries covering a span of 2 500 years reflects the planet s extraordinary physical diversity the previous edition was voted one of the 25 great books of geology by readers of the journal of geological education this is a very worthwhile read with something for everyone interested in geography earth systems and geology natural history or the general environment robert a francis king s college london progress in physical geography

Data, Numeracy and ICT

2011-08-26

this book deals with the economic aspects of changing attitudes in arts and sciences the effects of the public good character of culture along with the very long production period and lifetime for its products are emphasized since both contribute to the failure of normal market solutions embodiment of ideas and the consequences of modern reproduction technology for protection of property rights are closely examined

Language of the Earth

2006-08-26

several years ago there began a consideration of the inadequacy of a traditional approach to teaching mathematics many teachers and perhaps a majority of the students often realize something is wrong with these methods and report a lack of enthusiasm in dealing with the discipline many teachers think that certain established habits have a serious pedagogical basis and therefore it is difficult to question them in addition perhaps there is also a certain fear in imagining and experimenting with new ways unfortunately the excessive use of examples and abstract formulations with exclusive reference to algebraic language distances the student from the pleasure of the discipline mathematics on the other hand requires attention and concentration but the understanding of its meaning gives rise to interest pleasure to discover and promotes deep learning this is where studying probability from an operational approach has gained much traction the most interesting aspect is the use of a very artisanal approach starting with objects that students can in part find in their daily lives trying to identify objects and situations that speak of different mathematics embodied in everyday life may offer more possibilities to deal with the mathematical illiteracy that seems to afflict a large part of our society examining an operational approach to teaching probability focuses on probability examined from an educational point of view and the implementation of a very concrete operational approach in the classroom two main pillars are examined within this book concrete objects and it tools used to perform simulations for probability teaching each chapter is devoted to an essential concept related to probability and covers the operational approach all the way from its historical development to types of probability studies different teaching methods within the approach and the theories surrounding it this book is ideal for pre service and in service teachers looking for nontraditional approaches in teaching along with instructional designers curricula developers practitioners researchers academicians and students interested in learning more about operational research and the use of objects to introduce probabilistic concepts in a new method of teaching

Arts, Sciences, and Economics

2020-12-18

from the mathematics of mazes to cones with a twist and the amazing sphericon and how to make one ian stewart is back with more mathematical stories and puzzles that are as quirky as they are fascinating and each from the cutting edge of the world of mathematics we find out about the mathematics of time travel explore the shape of teardrops which are not tear drop shaped but something much much more strange dance with dodecahedra and play the game of hex amongst many more strange and delightful mathematical diversions

Examining an Operational Approach to Teaching Probability

2010-04-22

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Cows in the Maze

1999-05

this book explores intersections of science and religion spirituality and technology engineering and science fiction mind and matter and outlines a new cosmic transhumanist religion hacking religion enlightening science awakening technology

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2013-11-11

since its launch in 1987 textual practice has established itself as a leading journal of radical literary theory new approaches to literary texts are naturally a major feature but in exploring apparently discrete areas such as philosophy history law science architecture gender and media studies textual practice pays no heed to traditional academic boundaries textual practice is available both on subscription and from bookstores for a free sample copy or further subscription details please contact trevina johnson routledge subscriptions itps ltd cheriton house north way andover sp10 5be uk

Möbius und sein Band

2020-02-07

it was customary it seems for an author to begin with excuses explanations and snivels about their work which is quite peculiar since the author is usually the last person to know what their book is about right from the wickedly funny table of contents which belongs not to this collection but an imagined one this remarkable genre defying volume is guaranteed to delight the reader in the mood for something original and different in the title story the inconceivable idea of the sun a couple finds that reorganizing their home library has an unexpected consequence on their shared reality the robots of eden is set in a world where stories are no longer essential to be human because civilized people have developed better technology to mediate their emotions in into the night an old brahmin leans into the comforts of an ancient language when the future renders him obsolete and how not to tell the ramayana is a borgesian journey into a ramayana retelling unlike any other this stellar collection of short fiction as poignant as it is playful blurs the distinction between what lies inside a story and what lies outside it it demonstrates yet again why anil menon is one of the most formidable names in contemporary indian writing

Tales of the Turing Church: Hacking religion, enlightening science, awakening

technology

2005-07-08

it appears to us that the universe is structured in a deeply mathematical way falling bodies fall with predictable accelerations eclipses can be accurately forecast centuries in advance nuclear power plants generate electricity according to well known formulas but those examples are the tip of the iceberg in nature s numbers ian stewart presents many more each charming in its own way stewart admirably captures compelling and accessible mathematical ideas along with the pleasure of thinking of them he writes with clarity and precision those who enjoy this sort of thing will love this book los angeles times

Textual Practice

2022-06-25

in this ground breaking theory the mechanisms behind parapsychological phenomena are analysed and logical proof is provided for the truth of astrology and the existence of the soul and spirit the personal conscious is revealed to be motivated by a metaphysical intelligence known as the god within which is the root of all paranormal phenomena the theory also introduces the concept of psycho plasma a medium that connects all life past and present and is the source of telepathy and other paranormal phenomena the existence of intelligent design is proposed as a complement to natural selection with id providing the motive force for change and ns serving as the template for design atheism is rejected and the existence of a supreme being and the afterlife is affirmed

The Inconceivable Idea of the Sun

2008-08-04

argues that humanity can be seen as a case of mistaken identity

Nature's Numbers

2024-05-24

discover the science behind brain based coaching by understanding how the brain works coaching professionals can better tailor their language strategies and goals to be in alignment with an individual s hard wired way of thinking written by two well known coaching professionals david rock and linda page coaching with the brain in mind presents the tools and methodologies that can be employed by novice and experienced coaches alike to create an effective and ultimately more rewarding relationship for both coach and client this

informative guide to the neuroscience of coaching clearly demonstrates how brain based coaching works in practice and how the power of the mind can be harnessed to help an individual learn and grow illustrated with numerous case examples and stories this book is organized for immediate use by professionals in their client work coverage includes a succinct but comprehensive overview of the major scientific and theoretical foundations for coaching and their implications for practice how the language of coaching setting goals making connections becoming more aware seeking breakthroughs and taking action parallels what neuroscientists tell us about how the brain operates neuroscience as a natural platform for the ongoing development of coaching building on the existing foundation of coaching by adding neuroscience as an evidence base for the profession coaching with the brain in mind shows that it is possible to become a better professional coach by understanding how the brain works as well the authors through their research present that an understanding of neuroscience research however new and speculative can help coaches and leaders fulfill their potential as change agents in the lives of others

The Theory of Material Mind

2011

this book introduces the reader to statistical reasoning and its use in physics it is based on a course taught to non science majors at cornell and differs from other treatments by its wide ranging use of quantitative methods which are built up in a constructive way and assume only that the reader can add subtract multiply and divide with confidence the author begins with a self contained introduction to the everyday uses of probability including the quantitative assessment of statistical information following a chapter on useful mathematical concepts he develops the basic ideas of mechanical motion the molecular theory of gases entropy as a measure of molecular agitation limitations on the conversion of heat to work the physics of the direction of time chaos and the role of probability in quantum mechanics to aid self instruction there are solved problems at the end of each chapter

Human Error

2009-08-06

in this small lucid gem of a book the controversial swiss theologian hans kung offers his thoughtful explanation of what the ancient profession of christian faith can mean for us today in doing so kung also flings a challenging response to the new catechism of the catholic church for credo is a fresh answer to the conservative stance of today s vatican a salvo that cannot be ignored while controversy inevitably surrounds all of kung s books credo is his most accessible and straightforward work to date written simply for all readers it is the summation of a lifetime of theological thought by one of christianity s most profound and original thinkers a book that reaches out to non catholic christians as well as to jews moslems and those of the eastern religions and that gives everyone the dignity he or she deserves kung asks the big questions can we still believe in god in the virgin birth in the divinity of jesus in his resurrection in eternal life and kung also asks many unusual questions did auschwitz disprove the existence in god is there any real difference between jesus and the buddha is resurrection from the dead un jewish must the church be undemocratic the answers he gives are as always profound and unexpected this is not a book just for

catholics or even just for christians but a book for anyone with an interest in how religion can be integrated into contemporary life here is a great modern intellect at his most reader friendly

Coaching with the Brain in Mind

1996-07-13

Reasoning about Luck

2003-09-18

Credo

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