God Created The Integers The Mathematical Breakthroughs That Changed History

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the book card magic and my mathematical discoveries opens a new chapter of mathematical discoveries using card magic as a pedestal this innovative work explains how research on card magic led to a new line of mind blowing mathematical findings these mathematical findings will captivate any reader interested in the following areas programming and modeling logical mathematical intelligence mathematical amusement riemann hypothesis the world of numbers and mathematics of order and pattern moreover this book is loaded with cutting edge puzzles prime number riddles and card mathematical intelligence demonstrations to educate and entertain the readers and also to stimulate their interest in research

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maths in 100 key breakthroughs presents a series of essays explaining the fundamentals of the most important maths concepts you really need to know richard elwes profiles the groundbreaking and front of mind discoveries that have had a profound influence on our way of life and understanding from the origins of counting some 35 000 years ago right up to the very latest breakthroughs such as wiles proof of fermat s last theorem and cook wolfram s rule 110 maths in 100 key breakthroughs tells a story of discovery invention painstaking progress and inspired leaps of the imagination

kant s mathematical world aims to transform our understanding of kant s philosophy of mathematics and his account of the mathematical character of the world daniel sutherland reconstructs kant s project of explaining both mathematical cognition and our cognition of the world in terms of our most basic cognitive capacities he situates kant in a

long mathematical tradition with roots in euclid s elements and thereby recovers the very different way of thinking about mathematics which existed prior to its arithmetization in the nineteenth century he shows that kant thought of mathematics as a science of magnitudes and their measurement and all objects of experience as extensive magnitudes whose real properties have intensive magnitudes thus tying mathematics directly to the world his book will appeal to anyone interested in kant s critical philosophy either his account of the world of experience or his philosophy of mathematics or how the two inform each other

we live in a world of numbers and mathematics and so we need to work with numbers and some math in almost everything we do to control our happiness and the direction of our lives the purpose of coming home to math is to make adults with little technical training more comfortable with math in using it and enjoying it and to allay their fears of math enable their numerical thinking and convince them that math is fun a range of important math concepts are presented and explained in simple terms mostly by using arithmetic with frequent connections to the real world of personal financial matters health gambling and popular culture as such coming home to math is geared to making the general non specialist adult public more comfortable with math though not to formally train them for new careers or to teach those first learning math it may also be helpful to liberal arts college students who need to tackle more technical subjects the range of topics covered may also appeal to scholars who are more math savvy though it may not challenge them

the seventeen equations that form the basis for life as we know it most people are familiar with history s great equations newton s law of gravity for instance or einstein s theory of relativity but the way these mathematical breakthroughs have contributed to human progress is seldom appreciated in in pursuit of the unknown celebrated mathematician ian stewart untangles the roots of our most important mathematical statements to show that equations have long been a driving force behind nearly every aspect of our lives using seventeen of our most crucial equations including the wave equation that allowed engineers to measure a building s response to earthquakes saving countless lives and the black scholes model used by bankers to track the price of financial derivatives over time stewart illustrates that many of the advances we now take for granted were made possible by mathematical discoveries an approachable lively and informative guide to the mathematical building blocks of modern life in pursuit of the unknown is a penetrating exploration of how we have also used equations to make sense of and in turn influence our world

a collection of popular essays from security guru bruce schneier in his latest collection of essays security expert bruce schneier tackles a range of cybersecurity privacy and real world security issues ripped from the headlines essays cover the ever expanding role of technology in national security war transportation the internet of things elections and more throughout he challenges the status quo with a call for leaders voters and consumers to make better security and privacy decisions and investments bruce s writing

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