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snapshots of modern mathematics

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Ivars Peterson



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development of mathematical competence both by humans as a species over millennia and by individuals over their lifetimes is a fascinating aspect of human cognition This book explores when and why the rudiments of mathematical capability first appeared among human beings what its fundamental concepts are and how and why it has grown into the richly branching complex of specialties that it is today It discusses whether the truths of mathematics are discoveries or inventions and what prompts the emergence of concepts that appear to be descriptive of nothing in human experience Also covered is the role of esthetics in mathematics What exactly are mathematicians seeing when they describe a mathematical entity as beautiful There is discussion of whether mathematical disability is distinguishable from a general cognitive deficit and whether the potential for mathematical reasoning is best developed through instruction This volume is unique in the vast range of psychological questions it covers as revealed in the work habits and products of numerous mathematicians It provides fascinating reading for researchers and students with an interest in cognition in general and mathematical cognition in particular Instructors of mathematics will also find the book's insights illuminating

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National Research Council, Mathematical Sciences Education Board, 1990-02-01 What mathematics should be learned by today's young people as well as tomorrow's workforce On the Shoulders of Giants is a vision of richness of mathematics expressed in essays on change dimension quantity shape and uncertainty each of which illustrate fundamental strands for school mathematics These essays expand on the idea of mathematics as the language and science of patterns allowing us to realize the importance of providing hands-on experience and the development of a curriculum that will enable students to apply their knowledge to diverse numerical problems Mathematical Treks: From Surreal Numbers to Magic Circles Ivars

Peterson, 2020-08-03 *Mathematics: All That Matters* Mike Askew, 2015-02-26 Mathematics often gets a bad press

Describing someone as calculating or rational is hardly as flattering as being labelled artistic or creative and mathematicians in movies or novels are often portrayed as social misfits who rarely get the guy or girl No wonder some folks say oh I don't care for mathematics I was never any good at it with a wistful sense of pride Yet professional mathematicians talk of the subject differently They look for elegant solutions to problems revel in playing around with mathematical ideas and talk of the creative nature of mathematics As the Russian mathematician Sophia Kovalevskaya said It is impossible to be a mathematician without being a poet in soul So why is there such a gap between the views of everyday folks and professional mathematicians Part of the problem lies in how most of us were taught mathematics in school The mathematics served up there is presented as a series of decontextualised abstract ideas wrested from the human struggles and interactions that gave birth to the ideas Through looking at some of the history of mathematics psychological studies into how we come to know mathematics and key ideas in mathematics itself the intent of this book is if not to make the reader fall in love with mathematics then at least to come to understand its nature a little better and perhaps care a little more for it In short this book explores the human side of maths **Dr. Ecco: Mathematical Detective** Dennis Shasha, 2013-03-05 DIVThe heroic

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The Fourth Dimension and Non-Euclidean Geometry in Modern Art, revised edition Linda Dalrymple Henderson, 2018-05-18 The long awaited new edition of a groundbreaking work on the impact of alternative concepts of space on modern art In this groundbreaking study first published in 1983 and unavailable for over a decade Linda Dalrymple Henderson demonstrates that two concepts of space beyond immediate perception the curved spaces of non Euclidean geometry and most important a higher fourth dimension of space were central to the development of modern art The possibility of a spatial fourth dimension suggested that our world might be merely a shadow or section of a higher dimensional existence That iconoclastic idea encouraged radical innovation by a variety of early twentieth century artists ranging from French Cubists Italian Futurists and Marcel Duchamp to Max Weber Kazimir Malevich and the artists of De Stijl and Surrealism In an extensive new Reintroduction Henderson surveys the impact of interest in higher dimensions of space in art and culture from the 1950s to 2000 Although largely eclipsed by relativity theory beginning in the 1920s the spatial fourth dimension experienced a resurgence during the later 1950s and 1960s In a remarkable turn of events it has returned as an important theme in contemporary culture in the wake of the emergence in the 1980s of both string theory in physics with its ten or eleven dimensional universes and computer graphics Henderson demonstrates the importance of this new conception of space for figures ranging from Buckminster Fuller Robert Smithson and the Park Place Gallery group in the 1960s to Tony Robbin and digital architect Marcos Novak

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