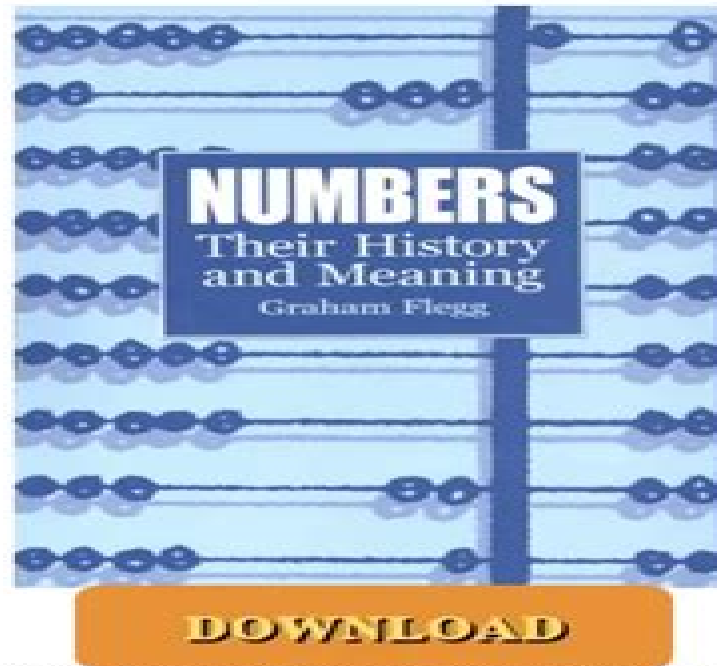


Numbers: Their History and Meaning (Dover Books on Mathematics)



Numbers: Their History and Meaning (Dover Books on Mathematics)

Description :

Much in our daily lives is defined in numerical terms—from the moment we wake in the morning and look at the clock to dialing a phone or paying a bill. But what exactly is a number? When did man begin to count and record numbers? Who made the first calculating machine—and when? At what point did people first think of solving problems by equations? These and many other questions about numbers are answered in this engrossing, clearly written book. Written for general readers by a teacher of mathematics, the jargon-free text traces the evolution of counting systems, examines important milestones, investigates numbers, words, and symbols used around the world, and identifies common roots. The dawn of numerals is also covered, as are fractions, addition, subtraction, multiplication, division, arithmetic symbols, the origins of infinite cardinal arithmetic, symbols for the unknown, the status of zero, numbers and religious belief, recreational math, algebra, the use of calculators —from the abacus to the computer —and a host of other topics. This entertaining and authoritative book will not only provide

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Herodotus



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A Brief History of Numbers Leo Corry, 2015 This is the story behind the idea of number from the Pythagoreans up until the turn of the 20th century through Greek Islamic European mathematics

History of Number Kay Owens, Glen Lean, Patricia Paraide, Charly Muke, 2017-10-24 This unique volume presents an ecocultural and embodied perspective on understanding numbers and their history in indigenous communities The book focuses on research carried out in Papua New Guinea and Oceania and will help educators understand humanity's use of numbers and their development and change The authors focus on indigenous mathematics education in the early years and shine light on the unique processes and number systems of non European styled cultural classrooms This new perspective for mathematics education challenges educators who have not heard about the history of number outside of Western traditions and can help them develop a rich cultural competence in their own practice and a new vision of foundational number concepts such as large numbers groups and systems Featured in this invaluable resource are some data and analyses that chief researcher Glendon Angove Lean collected while living in Papua New Guinea before his death in 1995 Among the topics covered The diversity of counting system cycles where they were established and how they may have developed A detailed exploration of number systems other than base 10 systems including 2 cycle 5 cycle 4 and 6 cycle systems and body part tally systems Research collected from major studies such as Geoff Smith's and Sue Holzknecht's studies of Morobe Province's multiple counting systems Charly Muke's study of counting in the Wahgi Valley in the Jiwaka Province and Patricia Paraide's documentation of the number and measurement knowledge of her Tolai community The implications of viewing early numeracy in the light of this book's research and ways of catering to diversity in mathematics education In this volume Kay Owens draws on recent research from diverse fields such as linguistics and archaeology to present their exegesis on the history of number reaching back ten thousand years ago Researchers and educators interested in the history of mathematical sciences will find History of Number Evidence from Papua New Guinea and Oceania to be an invaluable resource

The Mathematical Traveler Calvin C. Clawson, 2013-11-11 As he persuasively argues the mathematical concepts that arose and flourished in the ancient world enabled the creation of architectural masterpieces as well as the establishment of vast trade networks

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The Rhetorical Use of Numbers in the Deuteronomistic History Denise C. Flanders, 2022-04-11 The Deuteronomistic History contains many vast troop and casualty numbers What purpose does this literary device of numerical hyperbole serve What rhetorical purposes do any of the numbers in this text serve In *The Rhetorical Use of Numbers in the Deuteronomistic History* Saul Has Killed His Thousands David His Tens of Thousands Denise Flanders explores the variety of rhetorical effects that numbers have on the narrative of Joshua 2 Kings Flanders demonstrates that numbers in Joshua 2 Kings often work in surprising and subversive ways Rather than regularly glorifying a leader large casualty numbers may actually anticipate a ruler's downfall Rather than underscoring an Israelite battle victory numbers sometimes qualify or undermine the triumph of victories

Handbook of the History and Philosophy of Mathematical Practice Bharath Sriraman, 2024-04-26 The purpose of this unique handbook is to examine the transformation of the philosophy of mathematics from its origins in the history of mathematical practice to the present It aims to synthesize what is known and what has unfolded so far as well as to explore directions in which the study of the philosophy of mathematics as evident in increasingly diverse mathematical practices is headed Each section offers insights into the origins debates methodologies and newer perspectives that characterize the discipline today Contributions are written by scholars from mathematics history and philosophy as well as other disciplines that have contributed to the richness of perspectives abundant in the study of philosophy today who describe various mathematical practices throughout different time periods and contrast them with the development of philosophy

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The History of Philosophy from Thales to Comte George Henry Lewes, 1880 The History of Herodotus Herodotus, 1859

Explorations in the History of Machines and Mechanisms Teun Koetsier, Marco Ceccarelli, 2012-04-05 This book contains the proceedings of HMM2012 the 4th International Symposium on Historical Developments in the field of Mechanism and Machine Science MMS These proceedings cover recent research concerning all aspects of the development of MMS from antiquity until the present and its historiography machines mechanisms kinematics dynamics concepts and theories design methods collections of methods collections of models institutions and biographies *The Origin and Significance of Zero*

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Traditions Karine Chemla, 2012-07-05 This radical profoundly scholarly book explores the purposes and nature of proof in a range of historical settings It overturns the view that the first mathematical proofs were in Greek geometry and rested on the logical insights of Aristotle by showing how much of that view is an artefact of nineteenth century historical scholarship It documents the existence of proofs in ancient mathematical writings about numbers and shows that practitioners of mathematics in Mesopotamian Chinese and Indian cultures knew how to prove the correctness of algorithms which are much

more prominent outside the limited range of surviving classical Greek texts that historians have taken as the paradigm of ancient mathematics. It opens the way to providing the first comprehensive textually based history of proof. The History of Mathematics Roger L. Cooke, 2012-11-08 Praise for the Second Edition: An amazing assemblage of worldwide contributions in mathematics and in addition to use as a course book a valuable resource essential CHOICE. This Third Edition of The History of Mathematics examines the elementary arithmetic, geometry, and algebra of numerous cultures, tracing their usage from Mesopotamia, Egypt, Greece, India, China, and Japan all the way to Europe during the Medieval and Renaissance periods where calculus was developed. Aimed primarily at undergraduate students studying the history of mathematics for science, engineering, and secondary education, the book focuses on three main ideas: the facts of who, what, when, and where major advances in mathematics took place; the type of mathematics involved at the time; and the integration of this information into a coherent picture of the development of mathematics. In addition, the book features carefully designed problems that guide readers to a fuller understanding of the relevant mathematics and its social and historical context. Chapter-end exercises, numerous photographs, and a listing of related websites are also included for readers who wish to pursue a specialized topic in more depth. Additional features of The History of Mathematics Third Edition include material arranged in a chronological and cultural context; specific parts of the history of mathematics presented as individual lessons; new and revised exercises ranging between technical, factual, and integrative; individual PowerPoint presentations for each chapter; and a bank of homework and test questions in addition to the exercises in the book. An emphasis on geography, culture, and mathematics. In addition to being an ideal coursebook for undergraduate students, the book also serves as a fascinating reference for mathematically inclined individuals who are interested in learning about the history of mathematics.

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of characteristic of or resembling a serpent as in form or movement having a winding course as a road sinuous shrewd wily or cunning noun a device on a harquebus lock for holding the

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