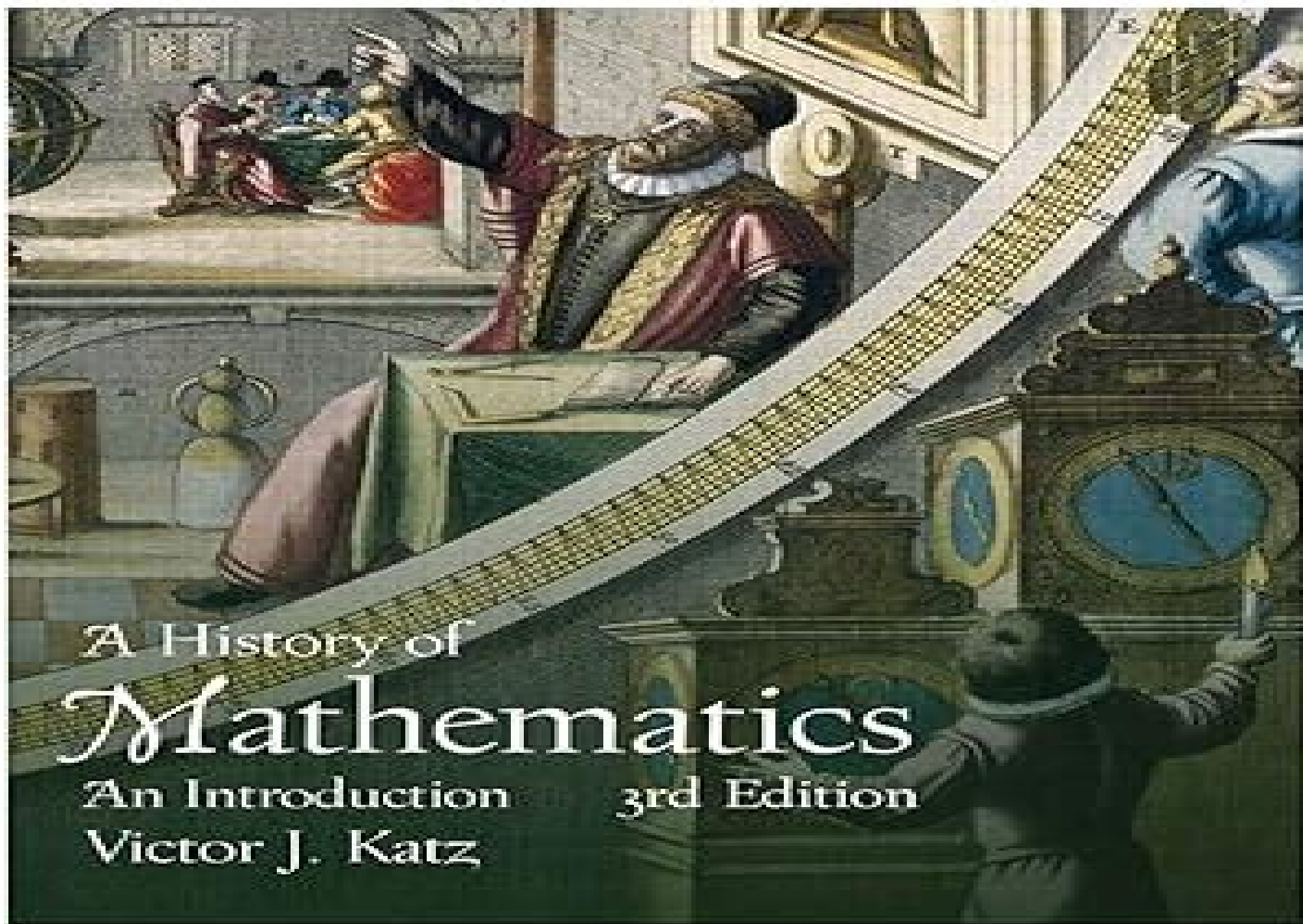




A History of
Mathematics

An Introduction
Victor J. Katz

3rd Edition

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A History of Mathematics Victor J. Katz, 1998 One of the leading historians in the mathematics field, Victor Katz provides a world view of mathematics balancing ancient, early modern, and modern history.

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The Golden Age of Data Visualization Kim Marriott, 2024-09-04 We are living in the Golden Age of Data Visualization. The COVID-19 pandemic has demonstrated how we increasingly use data visualizations to make sense of the world. Business analysts fill their presentations with charts; journalists use infographics to engage their readers; we rely on the dials and gauges on our household appliances and we use mapping apps on our smartphones to find our way. This book explains how and why this has happened. It details the evolution of information graphics: the kinds of graphics at the core of data visualization: maps, diagrams, charts, scientific and medical images from prehistory to the present day. It explains how the cultural context, production and presentation technologies, and data availability have shaped the history of data visualization. It considers the perceptual and cognitive reasons why data visualization is so effective and explores the little-known world of tactile graphics: raised line drawings used by people who are blind. The book also investigates the way visualization has shaped our modern world. The European Renaissance and the Scientific Revolution relied on maps and technical and scientific drawings and graphics influence how we think about abstract concepts like time and social connection. This book is written for data visualization researchers and professionals and anyone interested in data visualization and the way we use graphics to understand and think about the world.

The

Foundations of Mathematics, Updated Edition Michael Bradley, 2019-11-01 Praise for the previous edition ample information for reports School Library Journal During the 16th and 17th centuries mathematicians developed a wealth of new ideas but had not carefully employed accurate definitions proofs or procedures to document and implement them However in the early 19th century mathematicians began to recognize the need to precisely define their terms to logically prove even obvious principles and to use rigorous methods of manipulation The Foundations of Mathematics Updated Edition presents the lives and accomplishments of 10 mathematicians who contributed to one or more of the four major initiatives that characterized the rapid growth of mathematics during the 19th century the introduction of rigor the investigation of the structure of mathematical systems the development of new branches of mathematics and the spread of mathematical activity throughout Europe This updated edition communicates the importance and impact of the work of the pioneers who redefined this area of study Each unit contains information on the person s research discoveries and contributions to the field and concludes with a list of print and Internet references specific to that individual

A Brief History of Numbers Leo Corry, 2015-08-27 The world around us is saturated with numbers They are a fundamental pillar of our modern society and accepted and used with hardly a second thought But how did this state of affairs come to be In this book Leo Corry tells the story behind the idea of number from the early days of the Pythagoreans up until the turn of the twentieth century He presents an overview of how numbers were handled and conceived in classical Greek mathematics in the mathematics of Islam in European mathematics of the middle ages and the Renaissance during the scientific revolution all the way through to the mathematics of the 18th to the early 20th century Focusing on both foundational debates and practical use numbers and showing how the story of numbers is intimately linked to that of the idea of equation this book provides a valuable insight to numbers for undergraduate students teachers engineers professional mathematicians and anyone with an interest in the history of mathematics

How to Read Historical Mathematics Benjamin Wardhaugh, 2010-03-01 Techniques for deciphering texts by early mathematicians Writings by early mathematicians feature language and notations that are quite different from what we re familiar with today Sourcebooks on the history of mathematics provide some guidance but what has been lacking is a guide tailored to the needs of readers approaching these writings for the first time How to Read Historical Mathematics fills this gap by introducing readers to the analytical questions historians ask when deciphering historical texts Sampling actual writings from the history of mathematics Benjamin Wardhaugh reveals the questions that will unlock the meaning and significance of a given text Who wrote it why and for whom What was its author s intended meaning How did it reach its present form Is it original or a translation Why is it important today Wardhaugh teaches readers to think about what the original text might have looked like to consider where and when it was written and to formulate questions of their own Readers pick up new skills with each chapter and gain the confidence and analytical sophistication needed to tackle virtually any text in the history of mathematics Introduces readers to the methods of textual analysis used

by historians Uses actual source material as examples Features boxed summaries discussion questions and suggestions for further reading Supplements all major sourcebooks in mathematics history Designed for easy reference Ideal for students and teachers

Sum Stories Robin Wilson, 2025-04-21 Can one prove that $1^2 + 1^2 = 2$ How long is the coastline of Britain Which US president proved Pythagoras theorem on right angled triangles Who originated the quadratic equation we learned at school In how many ways can you tile your bathroom Is there a formula for prime numbers How often are two winning lottery numbers consecutive Who was the witch of Agnesi What is the most important theorem in mathematics Who scratched mathematical equations on a Dublin bridge What is a space filling curve Must all infinities be the same size These and many other questions are answered in this book which presents eighteen Stories featuring famous mathematical equations and their historical development The equations arise from geometry arithmetic algebra calculus combinatorics number theory and mathematical logic and range over 4 000 years from early counting and circle measurement via Renaissance algebra to fractal geometry and from the geometry of the ancient Greeks via the development of calculus to Boolean algebra and computing The Stories are well illustrated with historical artefacts and explanatory diagrams Presented in a straightforward intelligible and entertaining manner Sum Stories is written for general readers of all ages with an interest in mathematics and its historical development

Combinatorics: Ancient & Modern Robin Wilson, John J. Watkins, 2013-06-27 Combinatorics is the branch of discrete mathematics that studies and counts permutations combinations and arrangements of sets of elements This book constitutes the first book length survey of the history of combinatorics and uniquely assembles research in the area that would otherwise be inaccessible to the general reader

Rethinking the Needham Question Raymond W. K. Lau, 2024-12-24 This book offers a new investigation of the Needham Question Why did modern science emerge in Europe but not in any of the advanced non European civilizations Eurocentric accounts attribute it to certain qualities said to be unique to Europe Opposed to the Eurocentric view is a position known as the dialogical perspective Dialogism argues that Europe borrowed heavily from non European scientific knowledges and that scientific exchanges were key to the development of modern science Neo Eurocentric arguments have emerged in response to the challenge of dialogism and the debate between Eurocentrism neo Eurocentrism and dialogism currently stands at a stalemate In this book Raymond Lau brings a new theoretical methodological framework to finally settle this debate The historical analysis developed here shows that to secure the non Eurocentric case and decisively rebut Eurocentrism and neo Eurocentrism it is necessary to go beyond dialogism both theoretically and methodologically

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