The History of Mathematics: A Brief Course

By Roger L. Cooke

This new edition brings the fascinating and intriguing history of mathematics to life

The Second Edition of this internationally acclaimed text has been thoroughly revised, updated, and reorganized to give readers a fresh perspective on the evolution of mathematics. Written by one of the world's leading experts on the history of mathematics, the book details the key historical developments in the field, providing an understanding and appreciation of how mathematics influences today's science, art, music, literature, and society.

In the first edition, each chapter was devoted to a single culture. This Second Edition is organized by subject matter: a general survey of mathematics in many cultures, arithmetic, geometry, algebra, analysis, and mathematical inference. This new organization enables students to focus on one complete topic and, at the same time, compare how different cultures approached each topic. Many new photographs and diagrams have been added to this edition to enhance the presentation.

The text is divided into seven parts:

- The World of Mathematics and the Mathematics of the World, including the origin and prehistory of mathematics, cultural surveys, and women mathematicians
- Numbers, including counting, calculation, ancient number theory, and numbers and number theory in modern mathematics
- Color Plates, illustrating the impact of mathematics on civilizations from Egypt to Japan to Mexico to modern Europe
- Space, including measurement, Euclidean geometry, post-Euclidean geometry, and modern geometrics
- Algebra, including problems leading to algebra, equations and methods, and modern algebra
- Analysis, including the calculus, real, and complex analysis
- Mathematical Inference, including probability and statistics, and logic and set theory

As readers progress through the text, they learn about the evolution of each topic, how different cultures devised their own solutions, and how these solutions enabled the cultures to develop and progress. In addition, readers will meet some of the greatest mathematicians of the ages, who helped lay the groundwork for today's science and technology.

The book's lively approach makes it appropriate for anyone interested in learning how the field of mathematics came to be what it is today. It can also serve as a textbook for undergraduate or graduate-level courses. An Instructor's Manual presenting detailed solutions to all the problems in the book is available upon request from the Wiley editorial department.

- Rinconete y Cortadillo & El amante liberal / Rinconete and Cortadillo & The Liberal Lover (Biblioteca De Autor / Author's Library) (Spanish Edition)
- My Four-Year-Old The Property Investor
- Scaling Big Data with Hadoop and Solr - Second Edition
- Ingenious Mechanisms for Designers and Inventors 1930-67 : 4 Volume Set
- The Diatessaron
- Sleep Medicine Pearls, 3e (Pearls Series)
- The Human Nervous System, Second Edition
- Switching Power Supplies A to Z
- Thurgood Marshall: American Revolutionary
- Coriolanus In Plain and Simple English: A Modern Translation and the Original Version
- Manual der OSTEOSYNTHESE: AO-Technik (German Edition)
- Berlin 1961
- The Man God Uses
- Barbara Sykes' Training Border Collies
- Cognitive Psychology (8th Edition)
- By Ed Wheat Intended for Pleasure: Sex Technique and Sexual Fulfillment in Christian Marriage, Third Edition (3rd Edition) [Hardcover]
- Drama (Resource Books for Teachers)

The History of Mathematics: A Brief Course Summary Details

The History of Mathematics: A Brief Course by By Roger L. Cooke ebook read online.
pdetail:

- Sales Rank: #896192 in Books
- Published on: 2005-04-28
- Original language: English
- Number of items: 1
- Dimensions: 10.14" h x 1.51" w x 7.15" l, 2.91 pounds
- Binding: Hardcover
- 640 pages

editorial:

Review

“This book should engage students, and Chapters 1-4 contain a great deal of material that students usually have to find outside their textbook: background history, relationship of mathematics to the broader culture, and a great deal of information on women in mathematics. Once the students are taken in by the story, it will be the instructor’s job to elaborate on the historical calculations and proofs. For an experienced instructor in a history of mathematics class, this is an ideal situation; both the instructor and the text get to do their jobs.” (*Mathematical Association of America, 16 July 2013)*

"The second edition…is a jewel. It is notable for what it includes as well as what it does not. But most importantly, it is a jewel for its presentation." (*MAA Reviews*, January 15, 2007)

"…a remarkably well-compiled format…recommended as a textbook for an undergraduate course; in addition...can appeal to readers interested in the history of science and to a general audience." (*E-STREAMS*, November 2006)

"An amazing assemblage of worldwide contributions in mathematics and, in addition to use as a course book, a valuable resource…essential." (*CHOICE*, November 2005)

From the Back Cover
This new edition brings the fascinating and intriguing history of mathematics to life

The Second Edition of this internationally acclaimed text has been thoroughly revised, updated, and reorganized to give readers a fresh perspective on the evolution of mathematics. Written by one of the world's leading experts on the history of mathematics, the book details the key historical developments in the field, providing an understanding and appreciation of how mathematics influences today's science, art, music, literature, and society.

In the first edition, each chapter was devoted to a single culture. This Second Edition is organized by subject matter: a general survey of mathematics in many cultures, arithmetic, geometry, algebra, analysis, and mathematical inference. This new organization enables students to focus on one complete topic and, at the

same time, compare how different cultures approached each topic. Many new photographs and diagrams have been added to this edition to enhance the presentation.

The text is divided into seven parts:

- The World of Mathematics and the Mathematics of the World, including the origin and prehistory of mathematics, cultural surveys, and women mathematicians
- Numbers, including counting, calculation, ancient number theory, and numbers and number theory in modern mathematics
- Color Plates, illustrating the impact of mathematics on civilizations from Egypt to Japan to Mexico to modern Europe
- Space, including measurement, Euclidean geometry, post-Euclidean geometry, and modern geometrics
- Algebra, including problems leading to algebra, equations and methods, and modern algebra
- Analysis, including the calculus, real, and complex analysis
- Mathematical Inference, including probability and statistics, and logic and set theory

As readers progress through the text, they learn about the evolution of each topic, how different cultures devised their own solutions, and how these solutions enabled the cultures to develop and progress. In addition, readers will meet some of the greatest mathematicians of the ages, who helped lay the groundwork for today's science and technology.

The book's lively approach makes it appropriate for anyone interested in learning how the field of mathematics came to be what it is today. It can also serve as a textbook for undergraduate or graduate-level courses.

About the Author
ROGER COOKE, PHD, is Williams Professor of Mathematics, University of Vermont, and has served as an associate editor of Historia Mathematica. Dr. Cooke has authored other key titles in the field as well as translated several books by Russian mathematicians into English.

The History of Mathematics: A Brief Course by By Roger L. Cooke Reader Review Online

This new edition brings the fascinating and intriguing history of mathematics to life

The Second Edition of this internationally acclaimed text has been thoroughly revised, updated, and reorganized to give readers a fresh perspective on the evolution of mathematics. Written by one of the world's leading experts on the history of mathematics, the book details the key historical developments in the field, providing an understanding and appreciation of how mathematics influences today's science, art, music, literature, and society.

In the first edition, each chapter was devoted to a single culture. This Second Edition is organized by subject matter: a general survey of mathematics in many cultures, arithmetic, geometry, algebra, analysis, and mathematical inference. This new organization enables students to focus on one complete topic and, at the same time, compare how different cultures approached each topic. Many new photographs and diagrams have been added to this edition to enhance the presentation.

The text is divided into seven parts:

- The World of Mathematics and the Mathematics of the World, including the origin and prehistory of mathematics, cultural surveys, and women mathematicians
- Numbers, including counting, calculation, ancient number theory, and numbers and number theory in modern mathematics
- Color Plates, illustrating the impact of mathematics on civilizations from Egypt to Japan to Mexico to modern Europe
- Space, including measurement, Euclidean geometry, post-Euclidean geometry, and modern geometrics
- Algebra, including problems leading to algebra, equations and methods, and modern algebra
- Analysis, including the calculus, real, and complex analysis
- Mathematical Inference, including probability and statistics, and logic and set theory

As readers progress through the text, they learn about the evolution of each topic, how different cultures devised their own solutions, and how these solutions enabled the cultures to develop and progress. In addition, readers will meet some of the greatest mathematicians of the ages, who helped lay the groundwork for today's science and technology.

The book's lively approach makes it appropriate for anyone interested in learning how the field of mathematics came to be what it is today. It can also serve as a textbook for undergraduate or graduate-level courses. An Instructor's Manual presenting detailed solutions to all the problems in the book is available upon request from the Wiley editorial department.

The History of Mathematics: A Brief Course by By Roger L. Cooke ebook PDF online