1. Record Nr. UNINA9910139339003321 Autore Cooke Roger <1942-> Titolo The history of mathematics: a brief course / / Roger Cooke Hoboken, N.J., : Wiley-Interscience, c2005 Pubbl/distr/stampa **ISBN** 1-282-25340-9 9786613814050 1-118-03309-4 1-118-03024-9 Edizione [2nd ed.] Descrizione fisica 1 online resource (630 p.) 510/.9 Disciplina Soggetti Mathematics - History Mathematics Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Description based upon print version of record. Note generali Nota di bibliografia Includes bibliographical references and indexes. Nota di contenuto The History of Mathematics: A Brief Course; Contents; Preface; Part 1. The World of Mathematics and the Mathematics of the World; Chapter 1. The Origin and Prehistory of Mathematics; 1. Numbers; 1.1. Animals' use of numbers; 1.2. Young children's use of numbers; 1.3. Archaeological evidence of counting; 2. Continuous magnitudes; 2.1. Perception of shape by animals; 2.2. Children's concepts of space; 2.3. Geometry in arts and crafts; 3. Symbols; 4. Mathematical inference; 4.1. Visual reasoning; 4.2. Chance and probability; Questions and problems; Chapter 2. Mathematical Cultures I 1. The motives for creating mathematics 1.1. Pure versus applied mathematics; 2. India; 2.1. The Sulva Sutras; 2.2. Buddhist and Jaina mathematics; 2.3. The Bakshali Manuscript; 2.4. The siddhantas; 2.5. Aryabhata I; 2.6. Brahmagupta; 2.7. Bhaskara II; 2.8. Muslim India; 2.9. Indian mathematics in the colonial period and after; 3. China; 3.1. Works and authors: 3.2. China's encounter with Western mathematics: 4. Ancient Egypt; 5. Mesopotamia; 6. The Maya; 6.1. The Dresden Codex; Questions and problems; Chapter 3. Mathematical Cultures II; 1. Greek and Roman mathematics; 1.1. Sources

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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 si