

# Table of Contents

Introduction .....	i
The teaching of “indirect methods” by Gabriel Lamé, from the École polytechnique of Paris to the Institute of engineers of St Petersburg (1818-1827) <i>Évelyn Barbin</i> .....	1
Modernising Mathematics Teaching in the 1960s – Controversies in Nordic Cooperation <i>Kristín Bjarnadóttir</i> .....	15
The study of modern mathematics in the military course of mathematics (1753-1756) of Pedro Padilla <i>Mónica Blanco</i> .....	29
The late 1960s Belgian math war: “Papy-ists” versus “anti-Papy-ists” <i>Dirk De Bock</i> .....	45
Playing “As If” as a way to learn mathematics: the concept of equality in first grade in 1969 <i>Thomas De Vittori</i> .....	59
Making Cauchy’s <i>Cours d’analyse</i> “elementary”: Dirichlet’s Lectures on Series <i>Hans Fischer</i> .....	71
ICMI in the 1950s and 1960s: The internationalization process and the emergence of Mathematics Education as a research discipline <i>Fulvia Furinghetti, Livia Giacardi</i> .....	83
Debates on axiom systems for school geometry during the 1960s: Relating the proposals by Artin, Choquet, Dieudonné and Papy <i>Wendy Goemans, Dirk De Bock</i> .....	99
Soviet Colleges Before WWII: How Entrance Exams Were Conducted <i>Alexander Karp</i> .....	115
From 'stelkunst' to 'which algebra?' Changes in Dutch school algebra <i>Jenneke Krüger</i> .....	131
History of school geometry in the early years: Brazil, 19 <sup>th</sup> and 20 <sup>th</sup> century <i>Maria Célia Leme da Silva</i> .....	147
Teaching Engineers in Spain in the XVIII century: Analysing Mathematical Courses <i>Maria Rosa Massa-Esteve, Antoni Roca-Rosell</i> .....	165

Operations with fractions in Spanish 16 <sup>th</sup> century arithmetic texts	
<i>Antonio M. Oller-Marcén</i> .....	181
Towards a sociological explanation of the success of the Back to Basics movement in Sweden, 1970–1980	
<i>Johan Prytz, Linda Marie Ahl, Uffe Thomas Jankvist</i> .....	197
Arithmetic by manipulatives: a view through historical examples	
<i>Anne Rahn, Susanne Spies</i> .....	213
Traces of the Impact of the Works of the Wittenbergian Mathematician Johann Friedrich Weidler on Textbooks and Academic Teaching of the 18 <sup>th</sup> Century	
<i>Toni Reimers</i> .....	227
The Royaumont Seminar 1959 and Freudenthal's Involvement	
<i>Gert Schubring</i> .....	239
Hebrew authors in the 12th-16th centuries on teaching mathematics	
<i>Stela Segev</i> .....	255
Career Opportunities for Girls and Mathematics Education 1890-1920 in the US	
<i>Yana Shvartsberg</i> .....	269
Felix Klein (1849-1925): Symbiosis of History, Teaching, and Culture	
<i>Renate Tobies</i> .....	285
The concept of number by Karl Weierstraß and its first publication, viz. within a school program by Ernst Kossak	
<i>Peter Ullrich</i> .....	299
Concepts of mathematical giftedness in German schools: A cultural-historical approach	
<i>Ysette Weiss</i> .....	315
A Re-examination of the Nineteenth Century French Influence on American Mathematics Education through Textbook Author Charles Davies	
<i>Sian Zelbo</i> .....	331
Piet Vredenduin: math teacher and more, <i>trait d'union</i> between the Dutch and Flemish mathematics teachers' communities	
<i>Bert Zwaneveld, Dirk De Bock</i> .....	347
Index.....	363
Contributors .....	370