Contents

Toke Knudsen and Jessica Carter
Introduction —— 1

Philip Beeley

Revisiting Fermat: John Wallis and the English reception of number theory in the second half of the seventeenth century —— 11

Bruno Belhoste and Karine Chemla

Ideal chords in Poncelet's work, from the Saratov notebooks to the *Traité des propriétés projectives des figures* —— 35

Jed Buchwald

How Heinrich Hertz mapped the radiation field --- 65

Leo Corry

Von Neumann and impossibility, from Gödel to EDVAC --- 75

Jeremy Gray

Liouville's *Journal* and the *Journal de l'École Polytechnique*: a brief comparison —— 101

Jens Høyrup

Which groups, which forces transformed abbacus algebra, thus creating intellectual infrastructure for the scientific revolution? Reflections on the possibility to transfer the Zilsel thesis —— 123

Mikkel Willum Johansen

Cognitive artifacts in the history of mathematics —— 153

Tinne Hoff Kjeldsen and Andrea Loettgers

Nicolas Rashevsky and Alfred Lotka: different modeling strategies in the beginning of mathematical biology in the early twentieth century —— 169

David E. Rowe

Geometrical themes from Greek antiquity: how they resonated in the nineteenth century —— 185



VI — Contents

Erhard Scholz

From heliocentrism to epicycles: a commentary on pre-Ptolemaic astronomy —— 207

Henrik Kragh Sørensen

What is history of mathematics to twenty-first century mathematicians? —— 235

Publications by Jesper Lützen — 255

About the authors --- 261

About the editors ---- 263