

Contents

Foreword	v
Introduction	1
<i>C. E. Sandifer, R. E. Bradley</i>	
Leonhard Euler: Life and Thought	5
<i>R. S. Calinger</i>	
Leonhard Euler and Russia.....	61
<i>P. Hoffmann</i>	
Princess Dashkova, Euler, and the Russian Academy of Sciences	75
<i>R. S. Calinger, E. N. Polyakhova</i>	
Leonhard Euler and Philosophy	97
<i>W. Breidert</i>	
Images of Euler	109
<i>F. Fasanelli</i>	
Euler and Applications of Analytical Mathematics to Astronomy	121
<i>C. Wilson</i>	
Euler and Indian Astronomy	147
<i>K. Plofker</i>	
Euler and Kinematics	167
<i>T. Koetsier</i>	
Euler on Rigid Bodies	195
<i>S. G. Langton</i>	
Euler's Analysis Textbooks.....	213
<i>V. J. Katz</i>	

Euler and the Calculus of Variations.....	235
<i>R. Thiele</i>	
Euler, D'Alembert and the Logarithm Function	255
<i>R. E. Bradley</i>	
Some Facets of Euler's Work on Series.....	279
<i>C. E. Sandifer</i>	
The Geometry of Leonhard Euler	303
<i>H. S. White</i>	
Cyclotomy: From Euler through Vandermonde to Gauss.....	323
<i>O. Neumann</i>	
Euler and Number Theory: A Study in Mathematical Invention.....	363
<i>J. Suzuki</i>	
Euler and Lotteries	385
<i>D. R. Bellhouse</i>	
Euler's Science of Combinations	395
<i>B. Hopkins, R. Wilson</i>	
The Truth about Königsberg	409
<i>B. Hopkins, R. Wilson</i>	
The Polyhedral Formula.....	421
<i>D. Richeson</i>	
On the Recognition of Euler among the French, 1790 - 1830	441
<i>I. Grattan-Guinness</i>	
Euler's Influence on the Birth of Vector Mechanics.....	459
<i>S. Caparrini</i>	
Euler's Contribution to Differential Geometry and its Reception	479
<i>K. Reich</i>	
Euler's Mechanics as a Foundation of Quantum Mechanics	503
<i>D. Suisky</i>	
Index	527