

Contents

PREFACE	9
INTRODUCTION: ARITHMETIC AS THE SCIENCE OF NUMBERS	15
I. THEORETICAL ARITHMETIC	33
1. The Nature of Numbers: <i>Saltus Gerberti</i> (Letter to Constantine)	34
2. Figurative Numbers and Geometry (Letter to Adelbold)	55
3. Music and Harmony (Two Letters to Constantine)	69
4. Astronomy and Timekeeping (Letter <i>De sphaera</i> , Richer's <i>Historia</i> , and the Horological letter to Adam)	81
II. PRACTICAL ARITHMETIC	129
1. <i>Tabula abaci</i> , Decimal Positional Notation and <i>Ghubar</i> Numbers ...	129
2. <i>Regulae multiplicationis</i>	156
3. <i>Regulae divisionis</i>	170
CONCLUSION	185
BIBLIOGRAPHY	189
Abbreviations	189
Primary Sources	189
Secondary Sources	198

INDICES	217
List of Tables	219
List of Figures	221
Index locorum	223
Index of Personal Names (before 1700)	233
Index of Personal Names (after 1700)	237