Contents



1	Introduction		
	1.1	The Low Countries in the Sixteenth Century	1
	1.2	Antwerp in the Sixteenth Century	5
2	The	Coignet Family	9
	2.1	The Ancestors	9
	2.2	Gillis Coignet the Elder	11
	2.3	The Loyal Polymath: Michiel Coignet	14
	2.4	Michiel's Descendants	22
3	Peter	r Heyns and the Nymphs of the Laurel Tree	25
	3.1	The Exiled Humanist	25
	3.2	The Humanist Playwright	29
	3.3	The Secretive Humanist	32
4	The	Arithmetic Teacher and His School	35
	4.1	Introduction	35
	4.2	The Guild of St Ambrose	37
	4.3	To Teach and Maintain: The Pupils of the Reckoning Masters	- 39
	4.4	A Schoolmaster's Income	42
	4.5	Other Jobs	44
	4.6	Relationships Between Schoolmasters	47
	4.7	Districts and Social Status	48
	4.8	Property	50
	4.9	The Arithmetic Teacher's Religion	52
5	The	Antwerp Arithmetic Books	57
	5.1	The Use of the Arithmetic Manuals	61
	5.2	The Rule of Three	64
	5.3	Barter	69
	5.4	Algebra and the Rule of Coss	70
	5.5	Calculation of Interest	75
	5.6	Higher Order Equations	82

	5.7	Partnership Problems	83
	5.8	Geometry	87
	5.9	Trigonometry	88
	5.10	Foreign Influences	91
6	Wine	Gauging	97
	6.1	Antwerp and the Wine Trade	97
	6.2	Collecting the Wine Excise	99
	6.3	Explaining the Measurement Method	104
7	Instru 7.1 7.2	Iment MakersThe Coignet Family as Instrument MakersThe Proportional Compass and the Sector	113 114 118
8	The <i>A</i> 8.1 8.2 8.3 8.4	Art of NavigationIntroductionThe Art of NavigationDe Medina's Arte de NavegarNieuwe Onderwijsinghe	139 139 140 145 146
9	Mapp 9.1 9.2 9.3	Introduction Mapping the Low Countries Mapping the World	161 161 161 167
10	Starg	azing	179
	10.1	Astrology, the Doomed Pseudo-Science	179
	10.2	The Astronomical Instruments	183
	10.3	Copernicanism Versus Tychoism	185
11	Ballis	tics and Fortifications	197
	11.1	Introduction	197
	11.2	Ballistics	199
	11.3	Fortifications at Antwerp	201
12	Concl	lusion	211
Арр	A.1 A.2 A.3	Emigrated Antwerp Arithmetic Teachers Schoolmistresses 1585–1620 and Schoolmasters 1600–1620 Religious Convictions of the Arithmetic Teachers A.3.1 According to SAA A4830(1) Lijsten Borgerlijcke Wacht A.3.2 According to A4550 Schoolmeestersgilde	213 213 214 216 216 216
	A.4	Residence of the Schoolmasters	217
	A.5	Revenue from Wine Gauging	220

Contents	XV
Archival Sources	223
Bibliography	229
Index	251