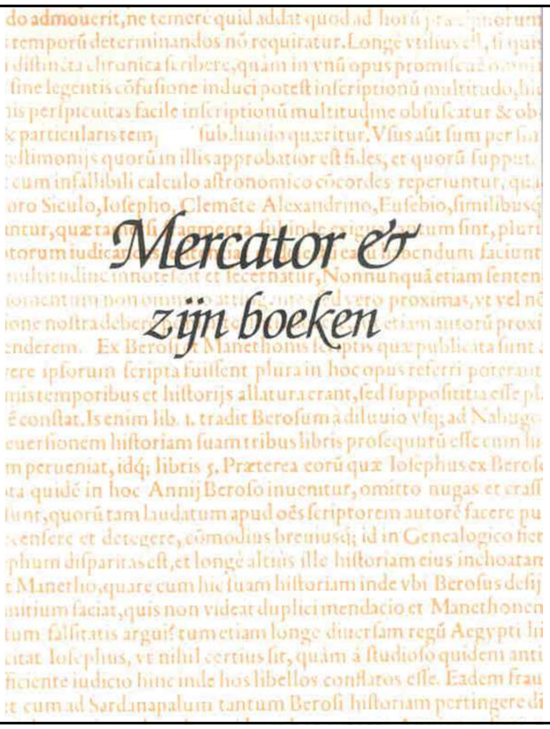
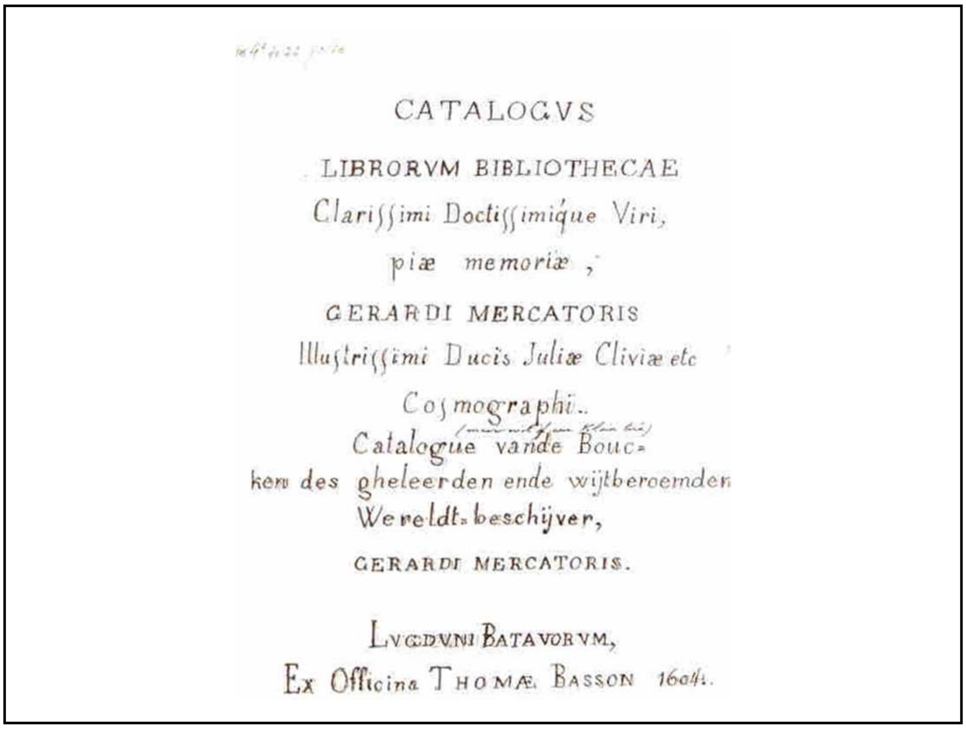

Mercator &
zijn boeken



CATALOGVS

LIBRORVM BIBLIOTHECAE

Clariſſimi Doctiſſimique Viri,

piæ memoriæ,

GERARDI MERCATORIS

Illuſtriſſimi Ducis Juliæ Cliviæ etc

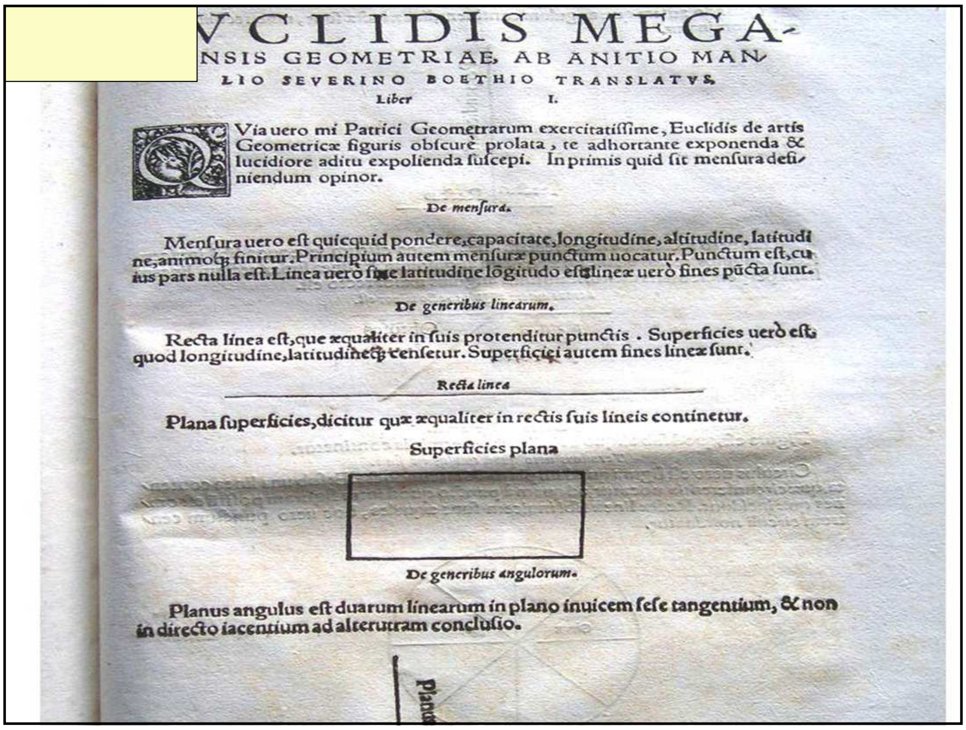
Coſmographi.

Catalogue vande Boucken des gheleerden ende wijtberoemden Wereldt-beschijver,

GERARDI MERCATORIS.

LVGDVNI BATAVORVM,

Ex Officina THOMÆ BASSON 1604.



VCLIDIS MEGA-NSIS GEOMETRIAE AB ANITIO MANLIO SEVERINO BOETHIO TRANSLATVS

Liber I.

QVia uero mi Patrici Geometrarum exercitatiſſime, Euclidis de artis Geometricæ figuris obſcurè prolata, te adhortante exponenda & lucidiore aditu expolienda ſuſcepi. In primis quid ſit menſura defi-niendum opinor.

De menſura.

Menſura uero eſt quicquid pondere, capacitate, longitudine, altitudine, latitudine, animoq; finitur. Principium autem menſuræ punctum uocatur. Punctum eſt, cuius pars nulla eſt. Linea uerò ſine latitudine lõgitudo eſt, lineæ uerò fines pũcta ſunt.

De generibus linearum.

Recta linea eſt, que æqualiter in ſuis protenditur punctis. Superficies uerò eſt, quod longitudine, latitudineq; cenſetur. Superficiei autem fines lineæ ſunt.

Recta linea

Plana ſuperficies, dicitur quæ æqualiter in rectis ſuis lineis continetur.

Superficies plana

De generibus angulorum.

Planus angulus eſt duarum linearum in plano inuicem ſeſe tangentium, & non in directo iacentium ad alterutram concluſio.

Planus

IACOBI
PELETARII
CENOMANI,

In Euclidis Elementa Geometrica
Demonſtrationum
Libri ſex.

Ad Carolum Lotharingum, Principem,
Cardinalemq; ampliſſimum.

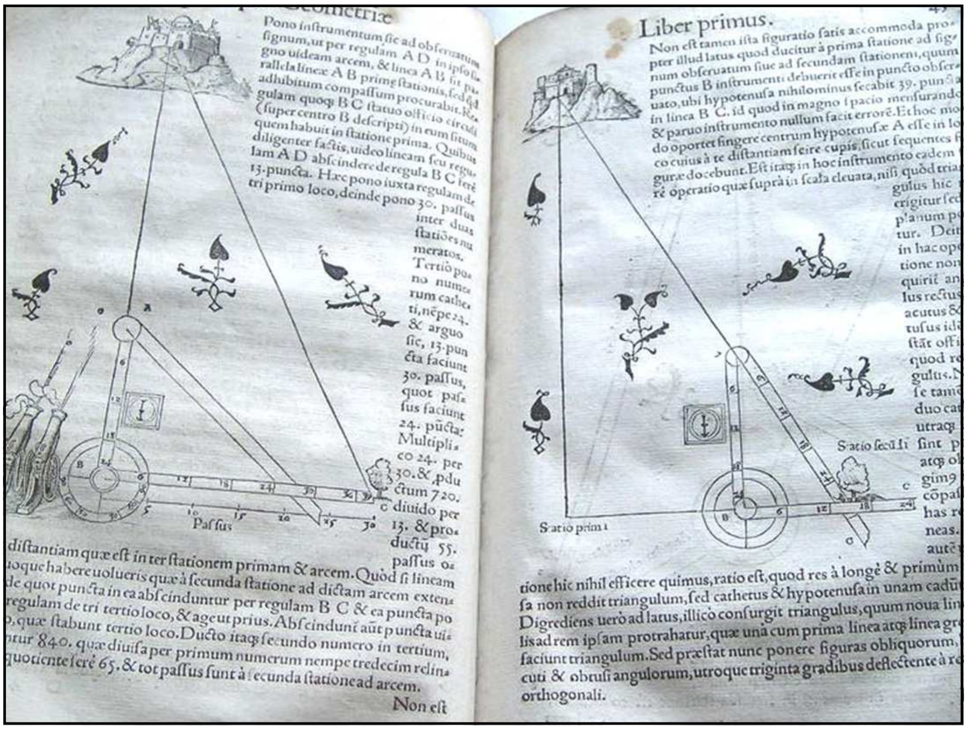
LVGDVNI,
APVD IOAN. TORNÆSIVM
ET GVL. GAZEIVM.
M. D. LVII.

Cum Priuilegio Regis.

ANITII MANLII SE-
VERINI BOETHI, VIRI CLARISSIMI ET
ILLVSTRISSIMI, EXCONSVLIS ORDINARII PA-
TRITII, AD PATRITIVM SYMMACHVM,

De Arithmetica Lib. II.
DE MVSICA Lib. V.
DE GEOMETRIA Lib. II.

BIBLIOT. S. IACOBI MAIORIS BONON



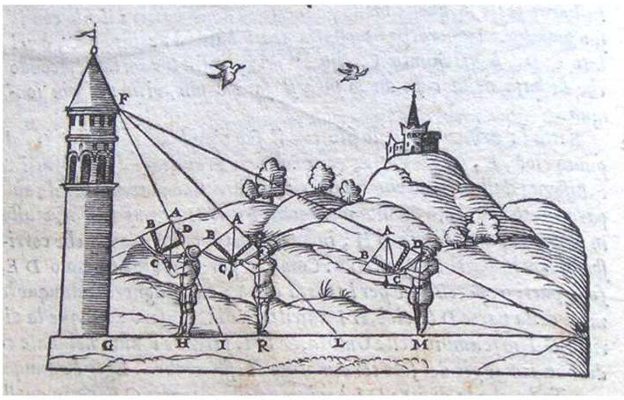
Geometriæ

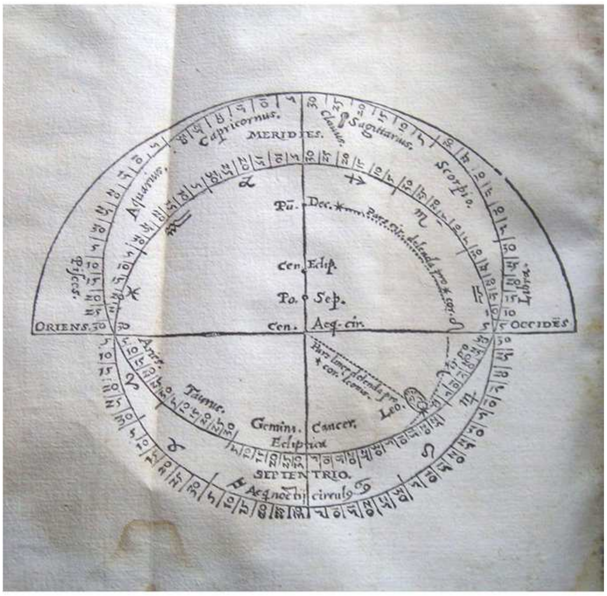
Pono inſtrumentum ſic ad obſeruatum
ſignum, ut per regulam A D in ipſo ſi-
gno uideam arcem, & linea A B ſit pa-
rallela lineæ A B primæ ſtationis, ſed quod
adhibitum compaſſum procurabit. Re-
gulam quoq; B C ſtatuo officio circuli
(ſuper centro B deſcripti) in eum ſitum
quem habuit in ſtatione prima. Quibus
diligenter factis, uideo lineam ſeu regu-
lam A D abſcindere de regula B C ferè
13. puncta. Hæc pono iuxta regulam de
tri primo loco, deinde pono 30. paſſus
inter duas
ſtatiões nu
meratos.
Tertiò po-
no nume-
rum cathe-
ti, nẽpe 24.
& arguo
ſic, 13. pun
cta faciunt
30. paſſus,
quot paſ-
ſus faciunt
24. pũcta:
Multipli-
co 24. per
30. & ꝓdu
ctum 720.
diuido per
13. & pro-
ductũ 55.
paſſus o-
diſtantiam quæ eſt in ter ſtationem primam & arcem. Quòd ſi lineam
ioque habere uolueris quæ à ſecunda ſtatione ad dictam arcem exten-
de quot puncta in ea abſcinduntur per regulam B C & ea puncta po
regulam de tri tertio loco, & age ut prius. Abſcindunt aũt puncta ui-
o, quæ ſtabunt tertio loco. Ducto itaq; ſecundo numero in tertium,
ntur 840. quæ diuiſa per primum numerum nempe tredecim relin-
quotiente ferè 65. & tot paſſus ſunt à ſecunda ſtatione ad arcem.

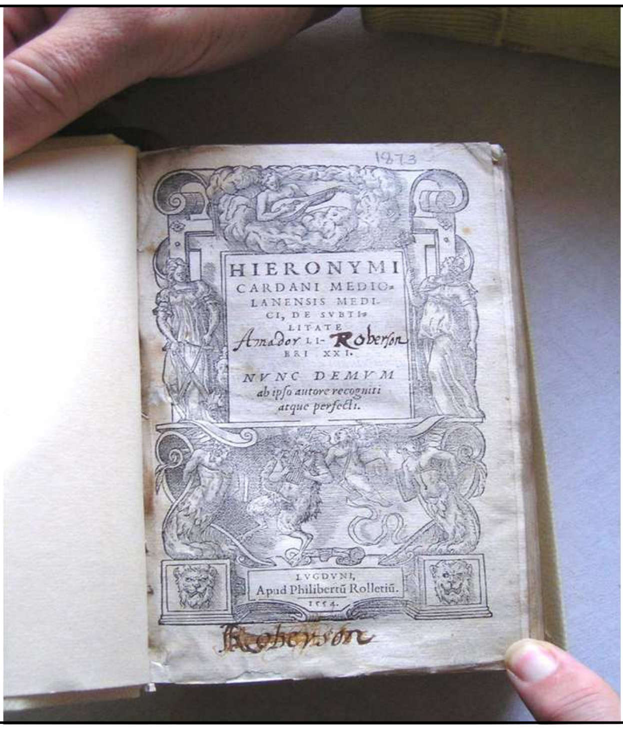
Non eſt

Liber primus.

Non eſt tamen iſta figuratio ſatis accommoda pro-
pter illud latus quod ducitur à prima ſtatione ad ſig-
num obſeruatum ſiue ad ſecundam ſtationem, quum
punctus B inſtrumenti debuerit eſſe in puncto obſer-
uato, ubi hypotenuſa nihilominus ſecabit 39. puncta
in linea B C. id quod in magno ſpacio menſurando
& paruo inſtrumento nullum facit errorẽ. Et hoc mo
do oportet fingere centrum hypotenuſæ A eſſe in lo
co cuius à te diſtantiam ſcire cupis, ſicut ſequentes fi
guræ docebunt. Eſt itaq; in hoc inſtrumento eadem
rẽ operatio quæ ſuprà in ſcala eleuata, niſi quòd tria
gulus hic
erigitur ſec
planum p
tur. Dein
in hac ope
tione non
quirit an
lus rectus
acutus &
tuſus id
ſtãt offi
quod re
gulus. N
ſe tam
duo ca
utraq;
ſint p
atq; ol
gim9
cõpaſ
has r
neas.
autẽ
tione hic nihil efficere quimus, ratio eſt, quod res à longè & primùm
ſa non reddit triangulum, ſed cathetus & hypotenuſa in unam cadũ
Digrediens uerò ad latus, illicò conſurgit triangulus, quum noua lin
lis ad rem ipſam protrahatur, quæ unà cum prima linea atq; linea gr
faciunt triangulum. Sed præſtat nunc ponere figuras obliquorum,
cuti & obtuſi angulorum, utroque triginta gradibus deflectente à re
orthogonali.




MERIDIES.
Capricornus.
Sagittarius.
Scorpio.
Aquarius.
Pisces.
ORIENS.
OCCIDES
Cen. Eclip.
Po. Sep.
Cen. Aeq. cir.
Aries.
Taurus.
Gemini.
Cancer.
Leo.
Ecliptica
SEPTENTRIO.
Aequinoctij circulus.


HIERONYMI
CARDANI MEDIO-
LANENSIS MEDI-
CI, DE SVBTI-
LITATE
LI-
BRI XXI.
NVNC DEMVM
ab ipſo autore recogniti
atque perfecti.
LVGDVNI,
Apud Philibertũ Rolletũ.

HIERONYMI CARDANI,

IN CL. PTOLEMAEI

DE ASTRORVM IVDICIIS, AVT (VT VVLGO' APPELLANT) QVADRIPARTITAE Conſtructionis Lib. IIII. COMMENTARIA, ab AVTORE poſtremùm caſtigata, & locupletata.

HIS ACCESSERVNT,

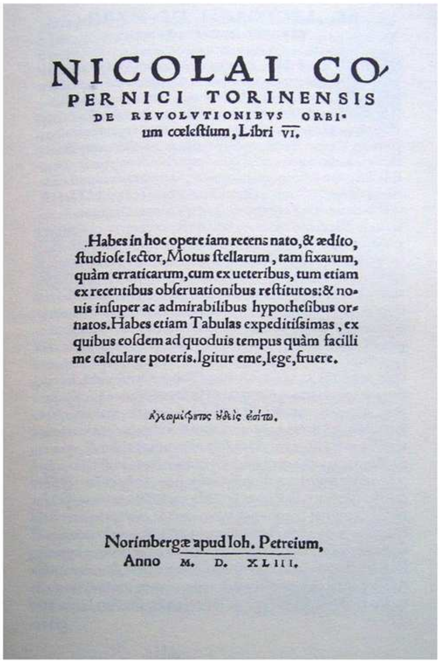
EIVSDEM CARDANI, DE SEPTEM ERRATICARVM STELLARVM qualitatibus atq; uiribus liber poſthumus, antè non uiſus. GENITVRARVM item XII. ad hanc ſcientiam rectè exercendam obſeruatu utilium, exempla.

ITEM,

CVNRADI DASYPODII, MATHEMATICI ARGENT. SCHOLIA ET RESOLVTIONES SEV TABVLAE IN LIB. IIII. Apoteleſmati[illegible] CL. PTOLEMAEI: Vnà cum APHORISMIS [illegible] dem librorum. Deniq; breuis explicatio ASTRONOMICI HOROLOGII Argentoratenſis, ad ueri & exacti temporis inueſtigationem extructi.

CARDANVS ÆTATIS AN. XLVIIII

BASILEÆ EX OFFICINA HENRICPETRINA.

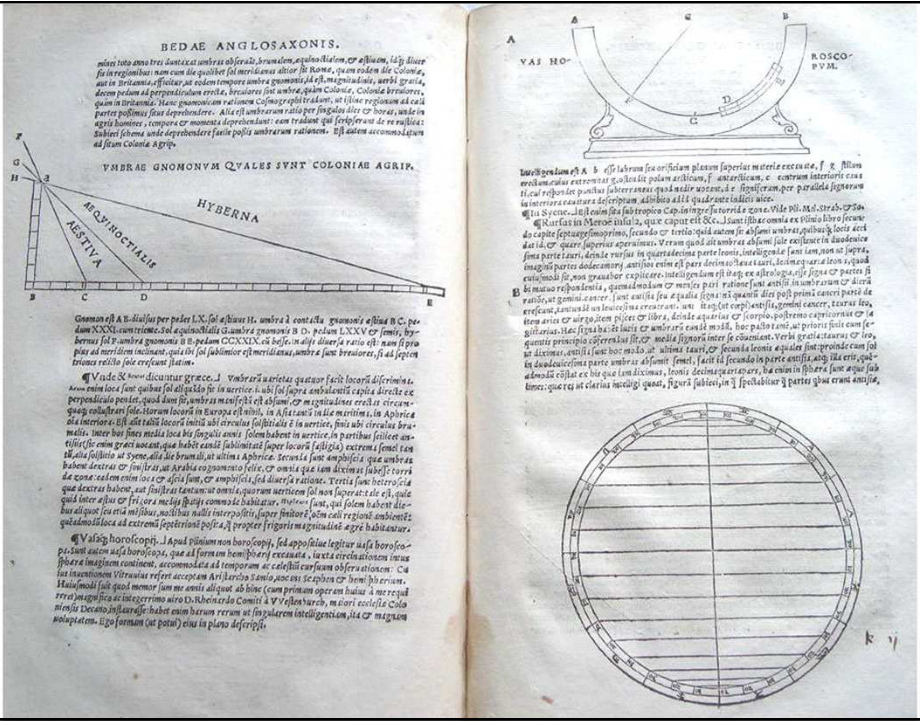


NICOLAI CO
PERNICI TORINENSIS
DE REVOLVTIONIBVS ORBI-
um cœleſtium, Libri VI.

Habes in hoc opere iam recens nato, & ædito, ſtudioſe lector, Motus ſtellarum, tam fixarum, quàm erraticarum, cum ex ueteribus, tum etiam ex recentibus obſeruationibus reſtitutos: & nouis inſuper ac admirabilibus hypotheſibus ornatos. Habes etiam Tabulas expeditiſsimas, ex quibus eoſdem ad quoduis tempus quàm facillime calculare poteris. Igitur eme, lege, fruere.

Ἀγεωμέτρητος οὐδεὶς εἰσίτω.

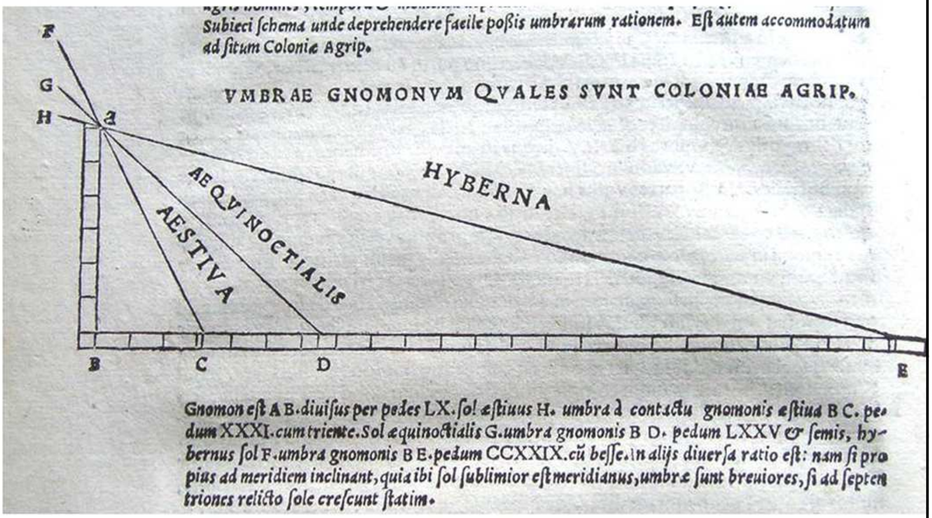
Norimbergæ apud Ioh. Petreium,
Anno M. D. XLIII.



BEDAE ANGLOSAXONIS.

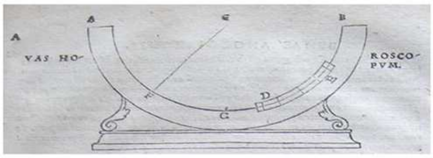
VMBRAE GNOMONVM QVALES SVNT COLONIAE AGRIP.

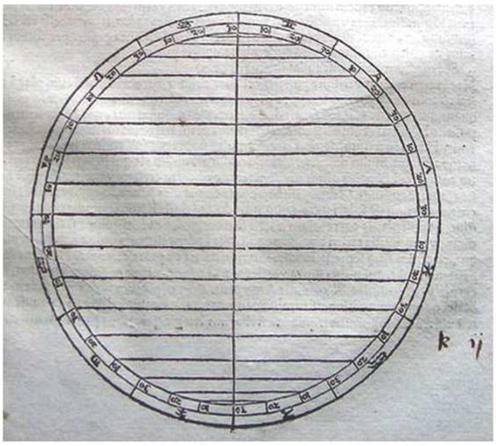
VAS HO- ROSCO- PVM.


Subieci ſchema unde deprehendere facile poßis umbrarum rationem. Eſt autem accommodatum ad ſitum Coloniæ Agrip.

VMBRAE GNOMONVM QVALES SVNT COLONIAE AGRIP.

Gnomon eſt A B. diuiſus per pedes LX. ſol æſtiuus H. umbra a contactu gnomonis æſtiua B C. pedum XXXI. cum triente. Sol æquinoctialis G. umbra gnomonis B D. pedum LXXV & ſemis, hybernus ſol F. umbra gnomonis B E. pedum CCXXIX. cũ beſſe. In alijs diuerſa ratio eſt: nam ſi propius ad meridiem inclinant, quia ibi ſol ſublimior eſt meridianus, umbræ ſunt breuiores, ſi ad ſeptentriones relicto ſole creſcunt ſtatim.





STRABONIS
GEOGRAPHICORVM
LIB. XVII.
Olim, ut putatur, à Guarino Veronenſi ac Gregorio Triſernate Latinitate donati, iam denuo à CONRADO HERESBACHIO LL. Doctore, Principisq; Iuliacenſis Conſiliario ad fidem Græci exemplaris, autorumq;, qui huc facere uidebantur, recogniti, ac pleriſq; locis deintegro uerſi.
ITEM,
EPITOMAE eorundem decem & ſeptem de Geographia librorum, nunc primum de Græco ſermone in Latinum conuerſæ, Hieronymo Gemuſæo, D. Medico & Philoſopho interprete.

BASILEAE apud Ioan. Vualder.
M. D. XXXIX.
Cum Priuilegio Cæſareo ad Quinquennium.

AVTHORVM, QVI A STRAbone citantur, nomenclatura.

POETAE.

Homerus, quem ferè interpretatur.
Heſiodi opus de terræ ambitu.
Euripides.
Sophocles.
Æſchylus.
Pindarus.
Callimachus.
Alcæus.
Alcman.
Mimnermus.
Myrſilus.
Duris.
Ion.
Ariſteas Procon.
Aratus.
Steſichorus.
Ariſto.
Ibychus.
Bergæus.
Aſius.
Tyrtæus.
Epicharmus.
Euphronius.
Menander.
Epimenides.
Archilochus.
Phocylides.
Antimachus.
Sappho poetria.
Callinus.
Alex. Ætolus, qui de orbe ſcripſit.
Damaſtus.
Nicander, qui de ſerpentibus.
Chœrilus.
Mimnermus elegiarum ſcriptor.

PHILOSOPHI, ORATOres, hiſtoriographi, grammatici promiſcue.

Plato.
Ariſtoteles.
Theophraſtus.
Xenocrates.
Dionyſius dialecticus.
Xanthus Lydus.
Menecrates Elaita, qui de originibus urbium ſcripſit.
Thraſyalcus Thaſius phyſicus.
Apollodorus de nauibus Hom.
Ariſtarchus.
Ariſtonichus.
Apollodorus Artemiſius.
Demetrius Callatianus.
Demetrius Adramyttenus.
Apollodorus grammaticus.
Democritus.
Hipparchus.
Anaximander Mileſius.
Hecatæus Mileſius.
Eudoxus.
Dicæarchus Ephorus.
Thales.
Thucydides.
Herodotus.
Polybius.
Xenophon.
Poſidonius.
Eratoſthenes.
Silanus hiſtoricus.
Fabius Romanus hiſtoricus.
Cæcilius hiſtoricus Romanus.
Cteſias hiſtoricus.
Metrodorus Scepſius.
Dionyſius, qui de urbibus ſcripſit.
Euphorion.
Theodoſius.
Cleophanes.
Charon Lampſacenus.
Diotimus.
Philetius.

Scylax Coriandeus.
Anaximenes.
Neoptolemus gloſſographus.
Adimantus.
Metrodorus.
Epicurus.
Tyrannion grammaticus.
Hegeſianax.
Cleanthes philoſophus.
Heſtiæa Alexandrina, quæ in Iliadem Homeri ſcripſit.
Daës Coloneus.
Molo.
Attalus.
Bacchilides.
Callias.
Philippus ſcriptor rerũ Caricarum.
Eratoſthenes.
Heraclitus.
Crates & eius ſphæra.
Seleucus Babylonius.
Athenodorus.
Polemo.
Archeſilaus.
Bio.
Zeno Citieus.
Ariſtonichus.
Hellanicus.
Demetrius Scepſius.
Theopompus hiſt.
Strato phyſicus.
Euhemerus Meſſenius.
Pytheas.
Patrocles.
Deimachus.
Megaſthenes.
Oneſicrates, de quo & Gellius.
Nearchus.
Philo.

Menon.
Timoſthenes.
Heraclides Ponticus.
Eudoxus Cyzicenus.
Antiphanes.
Artemidorus.
Aſclepiades Myrlianus.
Suidas.
Cineas.
Philetas.
Crates Malota.
Pherecydes.
Timotheus.
Aſinius hiſtoricus Romanus.
Anticlides.
Clitarchus.
Antiochus.
Zaleucus.
Hypſicrates.
Hipponax.
Heros.
Automedon.
Simias.
Hieronymus hiſtor.
Chryſippus.
Philochorus.
Andron.
Hegeſias, de quo & Gellius.
Polemon.
Cenodorus.
Scepſius.
Alcmeonidis author.
Archemachus.
Steſimbrotus Thaſius.
Aceſilaus Argiuus.
Soſicrates.
Staphylus.
Eraſiſtratus.
Theophanes Mitylenæus.

Scylax Coriandeus.
Anaximenes.
Neoptolemus gloſſographus.
Adimantus.
Metrodorus.
Epicurus.
Tyrannion grammaticus.
Hegeſianax.
Cleanthes philoſophus.
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Heraclitus.
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Theopompus hiſt.
Strato phyſicus.
Euhemerus Meſſenius.
Pytheas.
Patrocles.
Deimachus.
Megaſthenes.
Oneſicrates, de quo & Gellius.
Nearchus.
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Menon.
Timoſthenes.
Heraclides Ponticus.
Eudoxus Cyzicenus.
Antiphanes.
Artemidorus.
Aſclepiades Myrlianus.
Suidas.
Cineas.
Philetas.
Crates Malota.
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Aſinius hiſtoricus Romanus.
Anticlides.
Clitarchus.
Antiochus.
Zaleucus.
Hypſicrates.
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Polemon.
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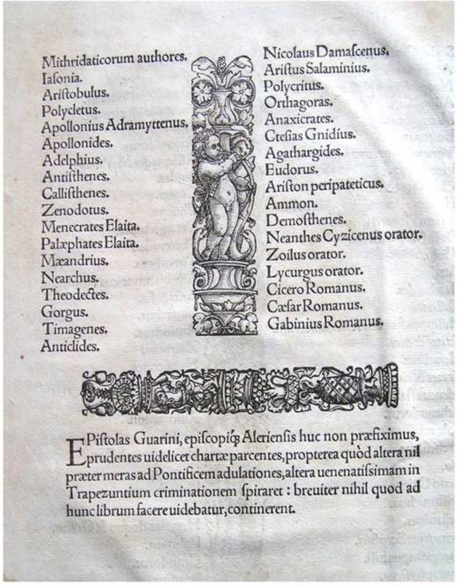
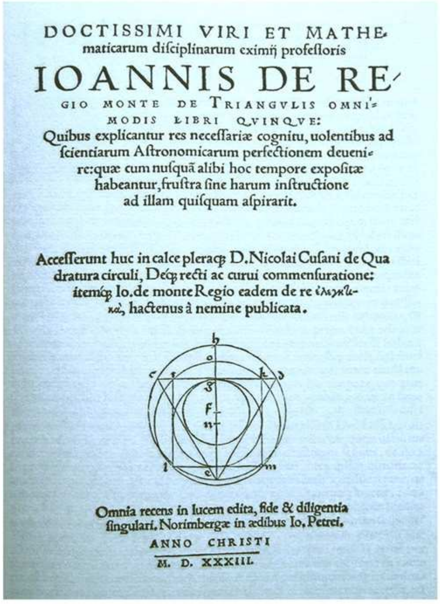
Scepſius.
Alcmeonidis author.
Archemachus.
Steſimbrotus Thaſius.
Aceſilaus Argiuus.
Soſicrates.
Staphylus.
Eraſiſtratus.
Theophanes Mitylenæus.



Mithridaticorum authores.
Iaſonia.
Ariſtobulus.
Polycletus.
Apollonius Adramyttenus.
Apollonides.
Adelphius.
Antiſthenes.
Calliſthenes.
Zenodotus.
Menecrates Elaita.
Palæphates Elaita.
Mæandrius.
Nearchus.
Theodectes.
Gorgus.
Timagenes.
Anticlides.
Nicolaus Damaſcenus.
Ariſtus Salaminius.
Polycritus.
Orthagoras.
Anaxicrates.
Cteſias Gnidius.
Agathargides.
Eudorus.
Ariſton peripateticus.
Ammon.
Demoſthenes.
Neanthes Cyzicenus orator.
Zoilus orator.
Lycurgus orator.
Cicero Romanus.
Cæſar Romanus.
Gabinius Romanus.

EPiſtolas Guarini, epiſcopiq; Alerienſis huc non præfiximus, prudentes uidelicet chartæ parcentes, propterea quòd altera nil præter meras ad Pontificem adulationes, altera uenenatiſsimam in Trapezuntium criminationem ſpiraret : breuiter nihil quod ad hunc librum facere uidebatur, continerent.

Io. Schottus Argentinen. lectori. S.
Hanc eme, non preſſam mendaci ſtigmate, Lector:
Pluribus aſt auctam perlege, doctus eris.
Baſileę. M D X VII.



DOCTISSIMI VIRI ET MATHE-
maticarum diſciplinarum eximij profeſſoris

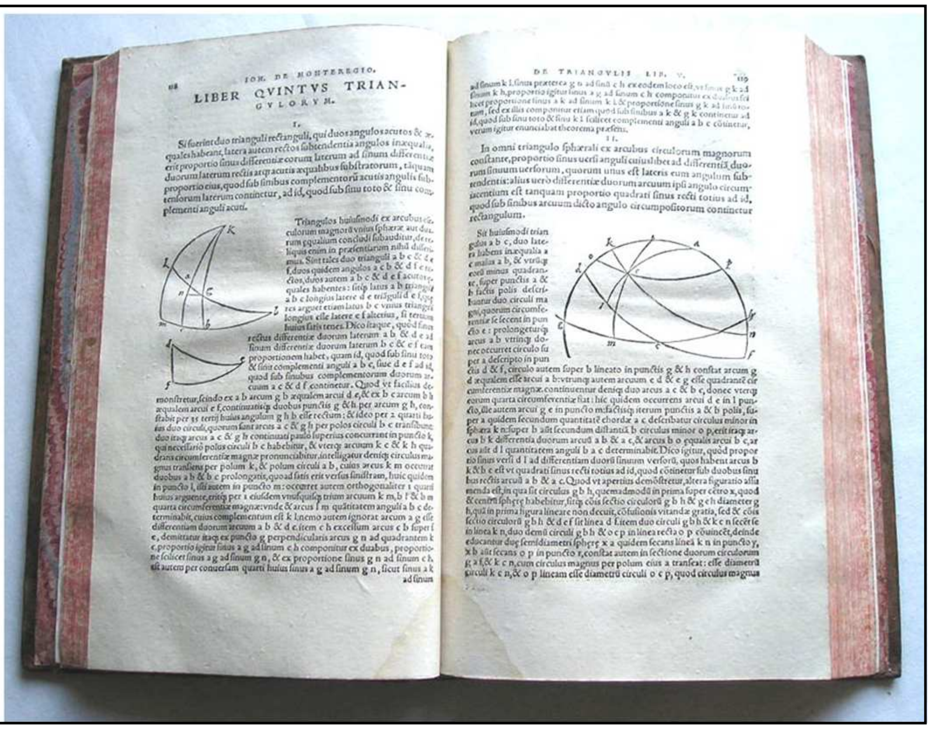
IOANNIS DE RE-
GIO MONTE DE TRIANGVLIS OMNI-
MODIS LIBRI QVINQVE:

Quibus explicantur res neceſſariæ cognitu, uolentibus ad ſcientiarum Aſtronomicarum perfectionem deuenire: quæ cum nuſquã alibi hoc tempore expoſitæ habeantur, fruſtra ſine harum inſtructione ad illam quiſquam aſpirarit.

Acceſſerunt huc in calce pleraq; D. Nicolai Cuſani de Quadratura circuli, Deq; recti ac curui commenſuratione: itemq; Io. de monte Regio eadem de re ἐλεγκτικά, hactenus à nemine publicata.

Omnia recens in lucem edita, fide & diligentia ſingulari. Norimbergæ in ædibus Io. Petrei.

ANNO CHRISTI
M. D. XXXIII.



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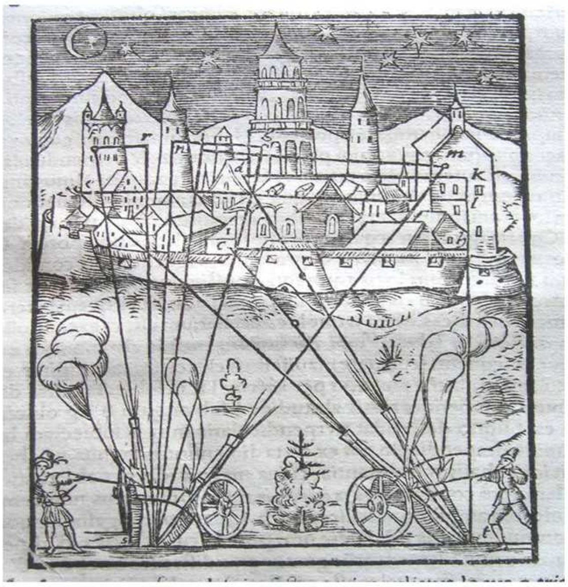
LIBER QVINTVS TRIANGVLORVM.

DE TRIANGVLIS LIB. V.



IOANNIS

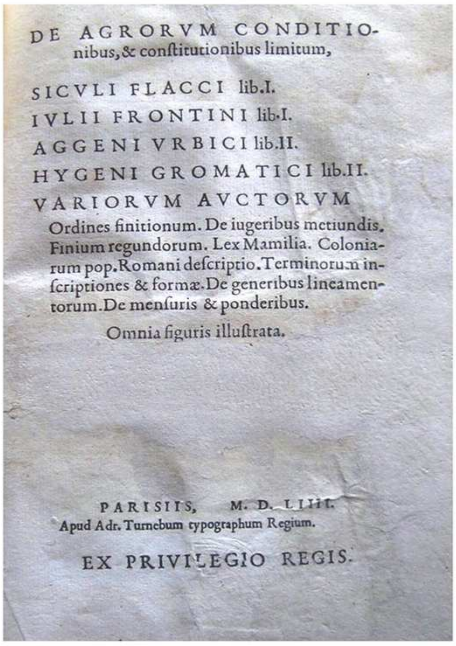
Regiomontani Franci

CLARISSIMI MATHEMATICI

FVNDAMENTA OPERATIONVM, QVAE
ſunt per tabulam generalem: Vel, Apodixes & demonſtra-
tiones eorum, quæ in tabulis primi mobilis, cum ta-
bulis Eclipſium Burbachij præceptoris editis à
Tanſtetero, præcepit, in communem omni-
um Mathematum ſtudioſorum uti-
litatem nunc primum
editæ.

Habes hic, optime Lector, præter cætera pulcherrima exempla doctrinæ de triangulis Sphæricis.

NEVBVRGI AD DANVBIVM.
ANNO M. D. LVII.



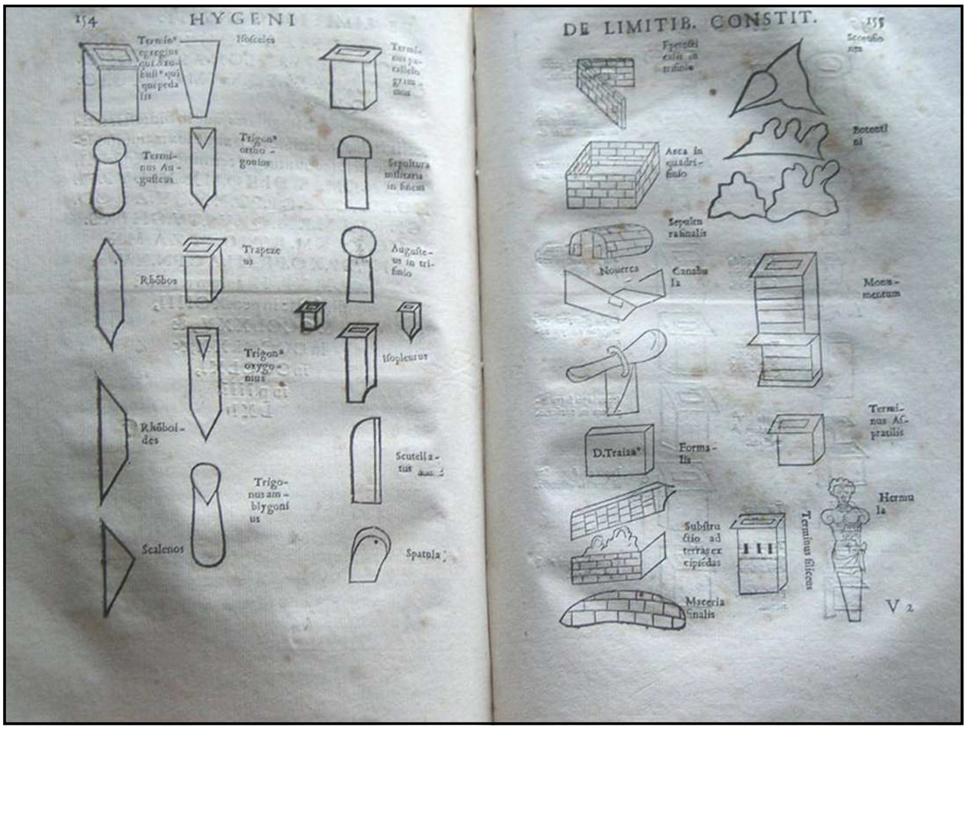
DE AGRORVM CONDITIONIBUS,& conſtitutionibus limitum,

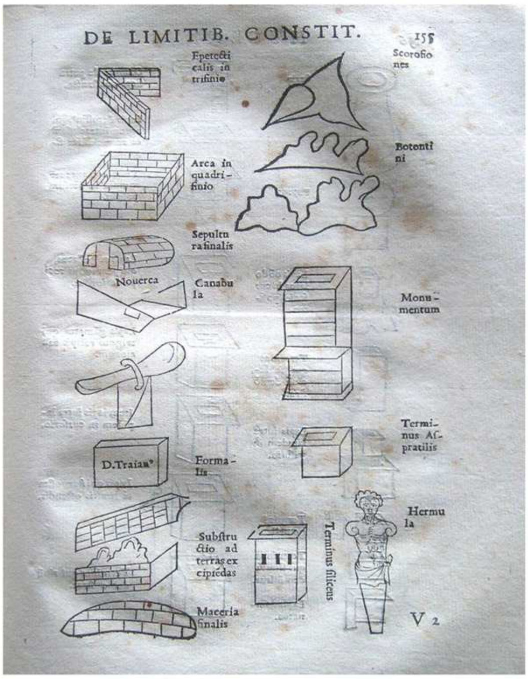
SICVLI FLACCI lib.I.
IVLII FRONTINI lib.I.
AGGENI VRBICI lib.II.
HYGENI GROMATICI lib.II.
VARIORVM AVCTORVM
Ordines finitionum. De iugeribus metiundis. Finium regundorum. Lex Mamilia. Coloniarum pop. Romani deſcriptio. Terminorum inſcriptiones & formæ. De generibus lineamentorum. De menſuris & ponderibus.

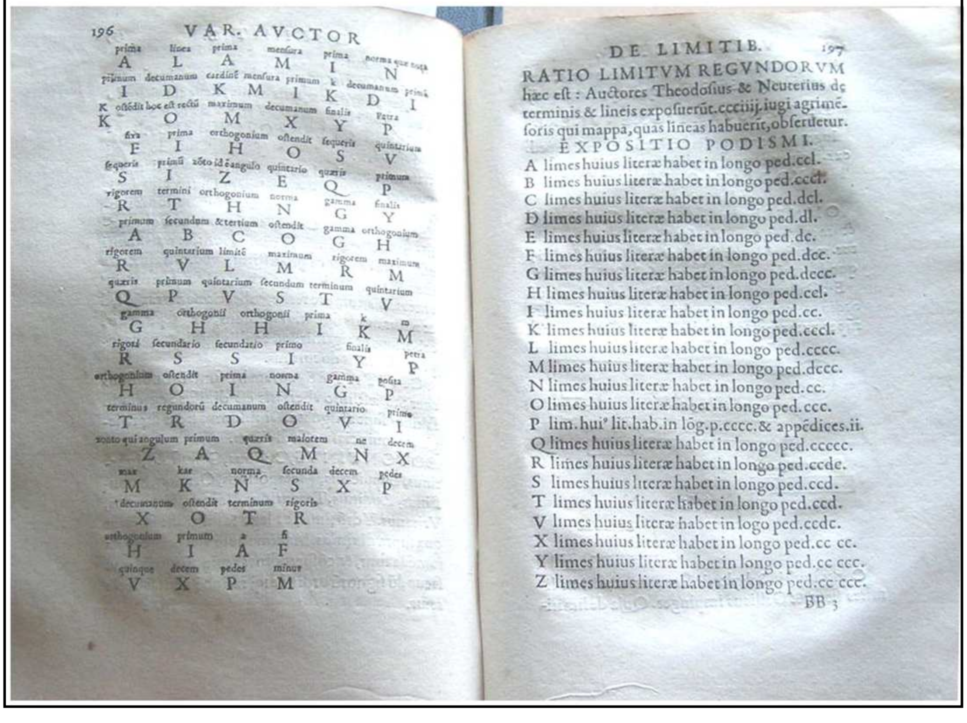
Omnia figuris illuſtrata.

PARISIIS, M. D. LIIII.
Apud Adr. Turnebum typographum Regium.

EX PRIVILEGIO REGIS.






196 VAR. AVCTOR

prima linea prima menſura prima norma quæ tota
A L A M I N
primum decumanum cardinẽ menſura primum k decumanum primũ
I D K M I K D I
K oſtẽdit hoc eſt rectũ maximum decumanum finalis Petra
K O M X Y P
fixa prima orthogonium oſtendit ſequeris quintarium
F I H O S V
ſequeris primũ zõto id ẽ angulo quintario quæris primum
S I Z E Q P
rigorem termini orthogonium norma gamma finalis
R T H N G Y
primum ſecundum & tertium oſtendit gamma orthogonium
A B C O G H
rigorem quintarium limitẽ maximum rigorem maximum
R V L M R M
quæris primum quintarium ſecundum terminum quintarium
Q P V S T V
gamma orthogonii orthogonii prima k m
G H H I K M
rigorẽ ſecundario ſecundario primo finalis petra
R S S I Y P
orthogonium oſtendit prima norma gamma poſita
H O I N G P
terminus regundorũ decumanum oſtendit quintario primo
T R D O V I
zonto qui angulum primum quæris maiorem ne decem
Z A Q M N X
mar kar norma ſecunda decem pedes
M K N S X P
decumanum oſtendit terminum rigoris
X O T R
orthogonium primum a ſi
H I A F
quinque decem pedes minus
V X P M

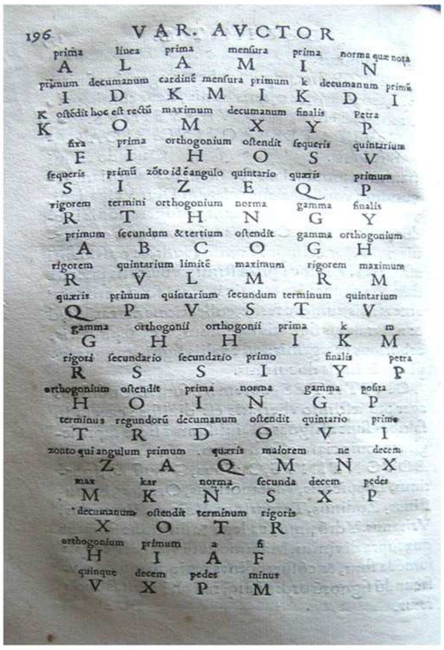
DE LIMITIB. 197

RATIO LIMITVM REGVNDORVM hæc eſt : Auctores Theodoſius & Neuterius de terminis & lineis expoſuerũt.ccciiij.iugi agrimẽſoris qui mappa, quas lineas habuerit, obſeruetur.

EXPOSITIO PODISMI.

A limes huius literæ habet in longo ped.ccl.
B limes huius literæ habet in longo ped.cccl.
C limes huius literæ habet in longo ped.dcl.
D limes huius literæ habet in longo ped.dl.
E limes huius literæ habet in longo ped.dc.
F limes huius literæ habet in longo ped.dcc.
G limes huius literæ habet in longo ped.dccc.
H limes huius literæ habet in longo ped.ccl.
I limes huius literæ habet in longo ped.cc.
K limes huius literæ habet in longo ped.cccl.
L limes huius literæ habet in longo ped.cccc.
M limes huius literæ habet in longo ped.dccc.
N limes huius literæ habet in longo ped.cc.
O limes huius literæ habet in longo ped.ccc.
P lim.hui⁹ lit.hab.in lõg.p.cccc.& appẽdices.ii.
Q limes huius literæ habet in longo ped.ccccc.
R limes huius literæ habet in longo ped.ccdc.
S limes huius literæ habet in longo ped.ccd.
T limes huius literæ habet in longo ped.ccd.
V limes huius literæ habet in logo ped.ccdc.
X limes huius literæ habet in longo ped.cc cc.
Y limes huius literæ habet in longo ped.cc ccc.
Z limes huius literæ habet in longo ped.cc ccc.

BB 3



196 VAR. AVCTOR

prima linea prima menſura prima norma quæ nota
A L A M I N
primum decumanum cardinē menſura primum k decumanum primū
I D K M I K D I
K oſtēdit hoc eſt rectū maximum decumanum finalis Petra
K O M X Y P
fixa prima orthogonium oſtendit ſequeris quintarium
F I H O S V
ſequeris primū zōto id ē angulo quintario quæris primum
S I Z E Q P
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A B C O G H
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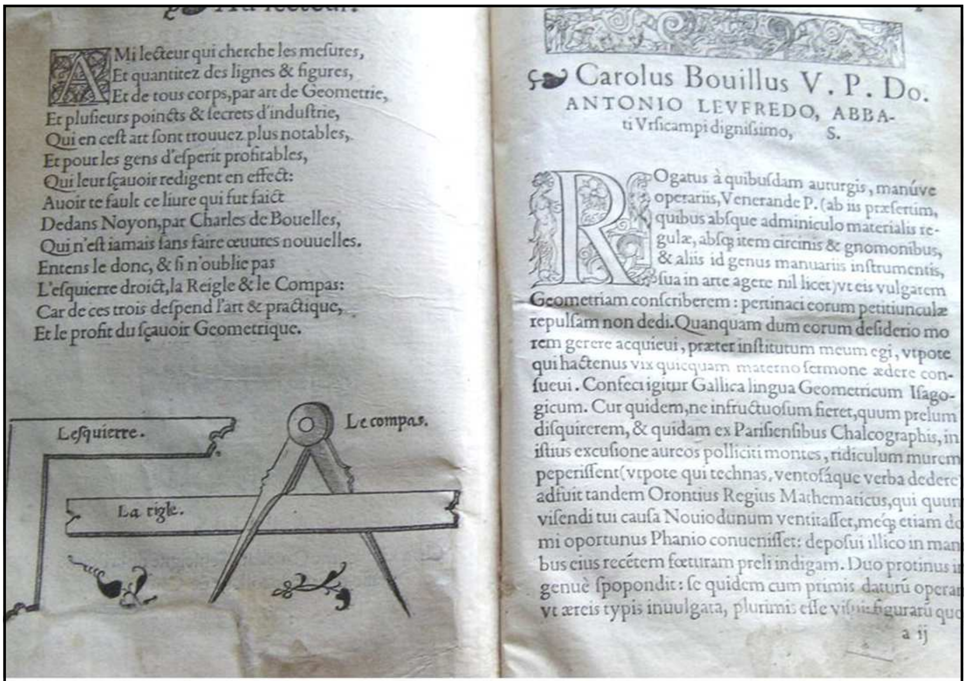
R V L M R M
quæris primum quintarium ſecundum terminum quintarium
Q P V S T V
gamma orthogonii orthogonii prima k m
G H H I K M
rigori ſecundario ſecundario primo finalis petra
R S S I Y P
orthogonium oſtendit prima norma gamma poſita
H O I N G P
terminus regundorū decumanum oſtendit quintario prime
T R D O V I
zonto qui angulum primum quæris maiorem ne decem
Z A Q M N X
max kar norma ſecunda decem pedes
M K N S X P
decumanum oſtendit terminum rigoris
X O T R
orthogonium primum a fi
H I A F
quinque decem pedes minus
V X P M



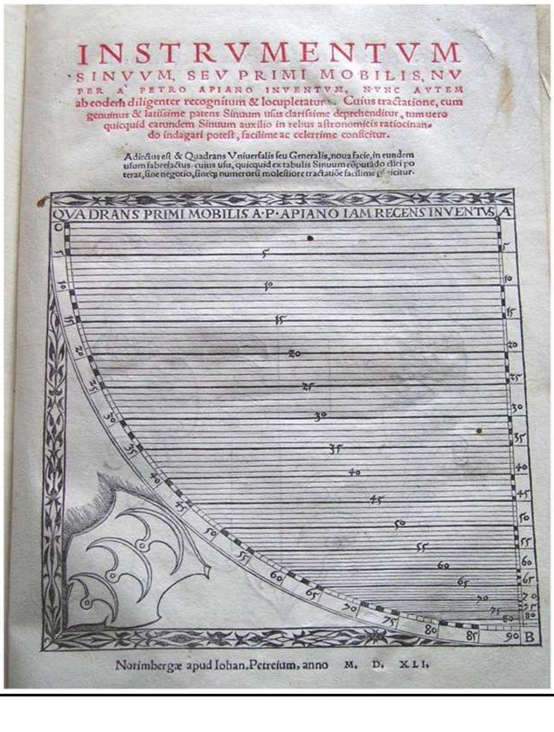
AMi lecteur qui cherche les meſures,
Et quantitez des lignes & figures,
Et de tous corps, par art de Geometrie,
Et pluſieurs poinćts & ſecrets d'induſtrie,
Qui en ceſt art ſont trouuez plus notables,
Et pour les gens d'eſperit profitables,
Qui leur ſçauoir redigent en effećt:
Auoir te fault ce liure qui fut faićt
Dedans Noyon, par Charles de Bouelles,
Qui n'eſt iamais ſans faire œuures nouuelles.
Entens le donc, & ſi n'oublie pas
L'eſquierre droićt, la Reigle & le Compas:
Car de ces trois deſpend l'art & praćtique,
Et le profit du ſçauoir Geometrique.

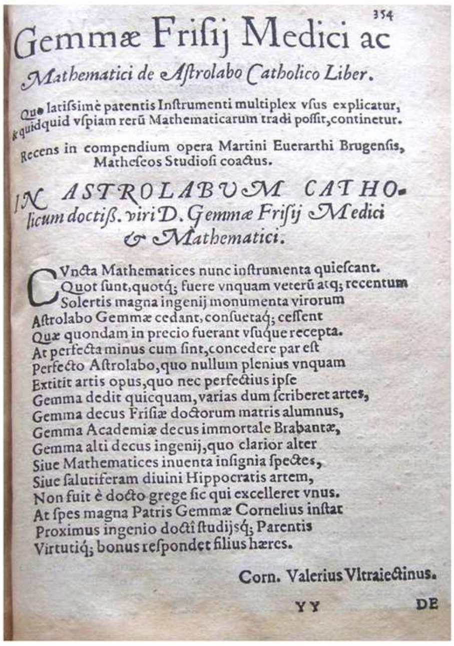
Carolus Bouillus V. P. Do. ANTONIO LEVFREDO, ABBAti Vrſicampi digniſsimo, S.

ROgatus à quibuſdam auturgis, manúve operariis, Venerande P. (ab iis præſertim, quibus abſque adminiculo materialis regulæ, abſq; item circinis & gnomonibus, & aliis id genus manuariis inſtrumentis, ſua in arte agere nil licet) vt eis vulgatem Geometriam conſcriberem: pertinaci eorum petitiunculæ repulſam non dedi. Quanquam dum eorum deſiderio morem gerere acquieui, præter inſtitutum meum egi, vtpote qui hactenus vix quicquam materno ſermone ædere conſueui. Confeci igitur Gallica lingua Geometricum Iſagogicum. Cur quidem, ne infructuoſum fieret, quum prelum diſquirerem, & quidam ex Pariſienſibus Chalcographis, in iſtius excuſione aureos polliciti montes, ridiculum murem peperiſſent (vtpote qui technas, ventoſáque verba dedere) adfuit tandem Orontius Regius Mathematicus, qui quum viſendi tui cauſa Nouiodunum ventitaſſet, meq; etiam do mi oportunus Phanio conueniſſet: depoſui illico in man bus eius recētem fœturam preli indigam. Duo protinus i genuè ſpopondit: ſe quidem cum primis daturū operar vt æreis typis inuulgata, plurimis eſſe viſui figurarū quo

a ij

QVADRATI GE
OMETRICI, CVIVS MEN.
TIO FIT PAGINA 4. SCHEMA
DECENTISSIMVM.
VIATICVM
CERTISS.
ARS.
LINEA FIDVCIAE.
VIRESCIT VVLNERE VIRTVS.


INSTRVMENTVM
SINVVM, SEV PRIMI MOBILIS, NV
PER A PETRO APIANO INVENTVM, NVNC AVTEM
ab eodem diligenter recognitum & locupletatum. Cuius tractatione, cum
genuinus & latiſsime patens Sinuum uſus clariſsime deprehenditur, tum uero
quicquid earundem Sinuum auxilio in rebus aſtronomicis ratiocinan.
do indagari poteſt, facilime ac celerrime conficitur.
Adiectus eſt & Quadrans Vniuerſalis ſeu Generalis, noua facie, in eundem
uſum fabrefactus. cuius uſu, quicquid ex tabulis Sinuum cõputãdo elici po
terat, ſine negotio, ſine numerorũ moleſtiore tractatiõe facilime
QVADRANS PRIMI MOBILIS A·P·APIANO IAM RECENS INVENTVS
Norimbergæ apud Iohan. Petreium, anno M. D. XLI.



354

Gemmæ Friſij Medici ac *Mathematici de Aſtrolabo Catholico Liber.*

Quo latiſsimè patentis Inſtrumenti multiplex vſus explicatur, & quidquid vſpiam rerũ Mathematicarum tradi poſſit, continetur.

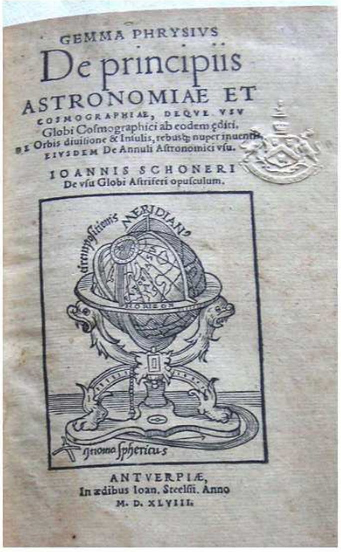
Recens in compendium opera Martini Euerarthi Brugenſis, Matheſeos Studioſi coactus.

IN ASTROLABVM CATHOlicum doctiſs. viri D. Gemmæ Friſij Medici & Mathematici.

CVncta Mathematices nunc inſtrumenta quieſcant.
Quot ſunt, quotq́; fuere vnquam veterũ atq; recentum
Solertis magna ingenij monumenta virorum
Aſtrolabo Gemmæ cedant, conſuetaq́; ceſſent
Quæ quondam in precio fuerant vſuque recepta.
At perfecta minus cum ſint, concedere par eſt
Perfecto Aſtrolabo, quo nullum plenius vnquam
Extitit artis opus, quo nec perfectius ipſe
Gemma dedit quicquam, varias dum ſcriberet artes,
Gemma decus Friſiæ doctorum matris alumnus,
Gemma Academiæ decus immortale Brabantæ,
Gemma alti decus ingenij, quo clarior alter
Siue Mathematices inuenta inſignia ſpectes,
Siue ſalutiferam diuini Hippocratis artem,
Non fuit è docto grege ſic qui excelleret vnus.
At ſpes magna Patris Gemmæ Cornelius inſtat
Proximus ingenio doctî ſtudijsq́; Parentis
Virtutiq́; bonus reſpondet filius hæres.

Corn. Valerius Vltraiectinus.

YY DE



GEMMA PHRYSIVS

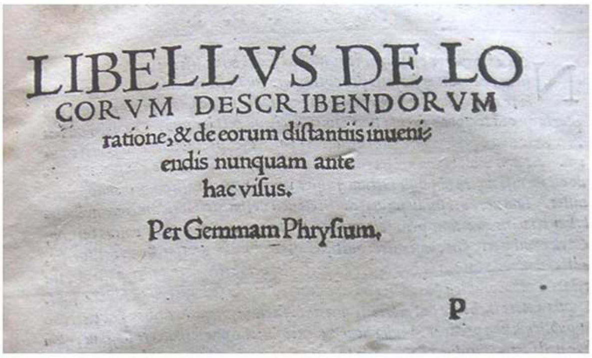
De principiis ASTRONOMIAE ET COSMOGRAPHIAE, DEQVE VSV Globi Coſmographici ab eodem ęditi.

DE Orbis diuiſione & Inſulis, rebusq; nuper inuentis.

EIVSDEM De Annuli Aſtronomici vſu.

IOANNIS SCHONERI De vſu Globi Aſtriferi opuſculum.

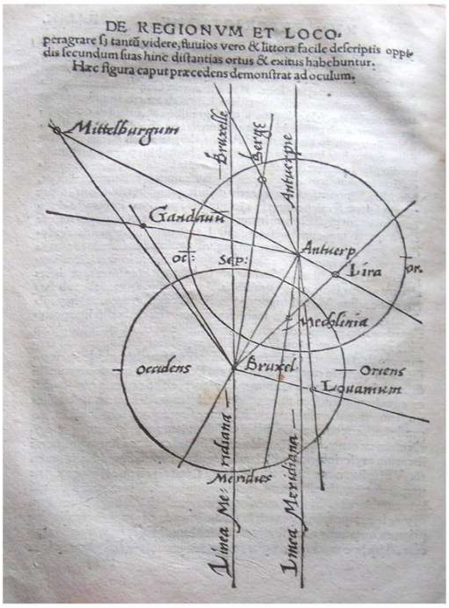
ANTVERPIÆ,
In ædibus Ioan. Steelſii. Anno
M. D. XLVIII.



LIBELLVS DE LO
CORVM DESCRIBENDORVM
ratione, & de eorum diſtantiis inueni-
endis nunquam ante
hac viſus.

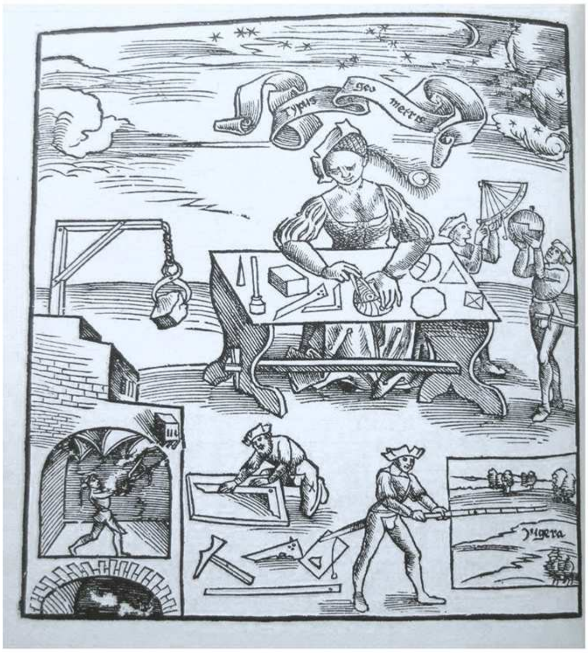
Per Gemmam Phryſium.

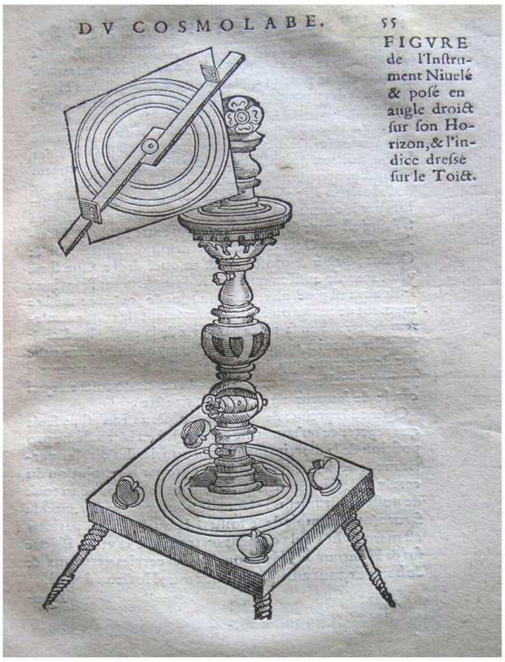
P



DE REGIONVM ET LOCO.

peragrare ſi tantũ videre, fluuios vero & littora facile deſcriptis oppi-
dis ſecundum ſuas hinc diſtantias ortus & exitus habebuntur.
Hæc figura caput præcedens demonſtrat ad oculum.


Typus geo metrie
Jugera


DV COSMOLABE.
55
FIGVRE
de l'Inſtru-
ment Niuelé
& poſé en
augle droict
ſur ſon Ho-
rizon, & l'in-
dice dreſſé
ſur le Toict.

Een nieu conſtich boeck inde GEOMETRIE en de ASTRONOMIÆ, voor deſen noyt in druck gheweeſt/ Ende is in ſes ſtucken afghedeylt.

Ten eerſten is daerin begrepen een nieuwe quadrant / daer door dach ende nacht/ by de Sonne/ Mane/ ende andere Planeten/ oock door ſommige Sterren/ die ſtonden ofte uren ende ander nuttinghe ghevonden werden.

Ten tweeden / hoemen die hoochte der Toorns ende andere ghebouwen/ insgelijcx de wijde/ breede ende diepte door den ſpiegel ende Inſtrument meten ſal.

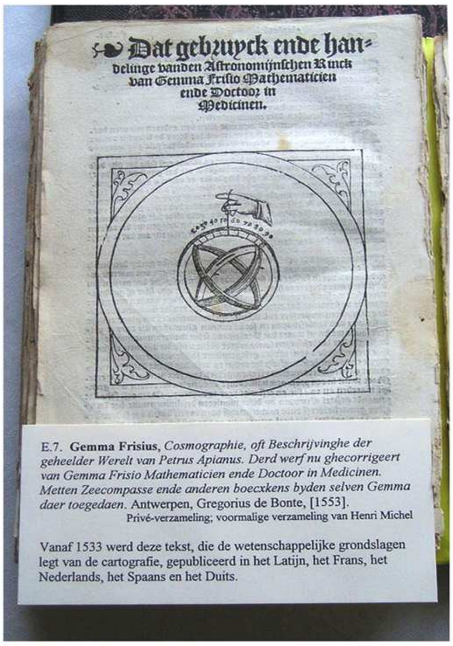
Ten derden / hoeme het water affien ofte afweghen ſal / of men dat in een Caſteel ofte ſtadt brenghen can / ende hoemen die quallen der wateren ſoecken ſal.

In 'tvierde ſijn 3. Inſtrumenten/ die mogen inde geheele Werelt by dach ende by nacht gebruyct werden/ ende hebben ſeer veel en menigerley ghebruycken.

Ten vijfden/ hoemen door die vingeren der handen die uren inder nacht ſonder eenich Inſtrument kennen ſal.

Ten leſten is daer in eenen nieuwen Meetſtock/ deſgelijcken men noemt den Jacobſtock/ daer door oock die hoochde/ breede/ wijde/ ende diepte/ op de nieuwe maniere gevonden wort.

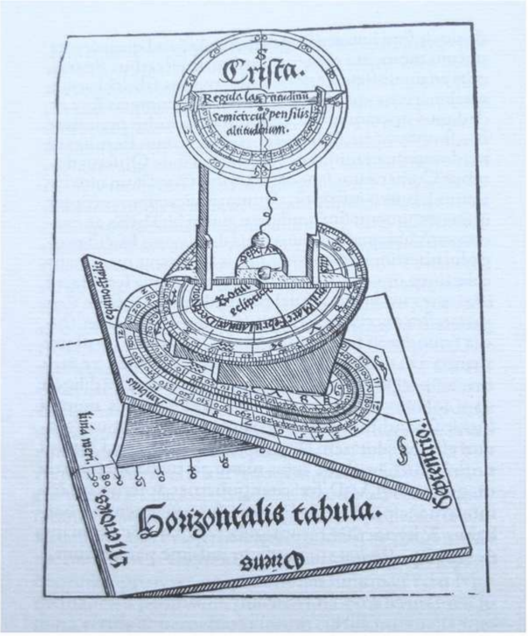
By een vergadert uyt Apiani ende andere voornoemde Authoren, ende nu uyt de Latijnſche ende Hoochduytſche by een vergadert door S.D.V.B. *Liefhebber der vrye conſten.*

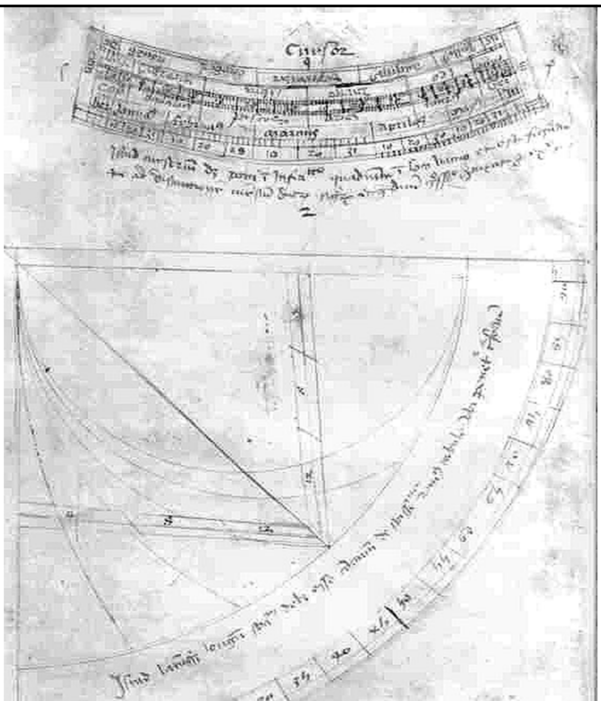


E.7. **Gemma Frisius**, *Cosmographie, oft Beschrijvinghe der geheelder Werelt van Petrus Apianus. Derd werf nu ghecorrigeert van Gemma Frisio Mathematicien ende Doctoor in Medicinen. Metten Zeecompasse ende anderen boecxkens byden selven Gemma daer toegedaen*. Antwerpen, Gregorius de Bonte, [1553].

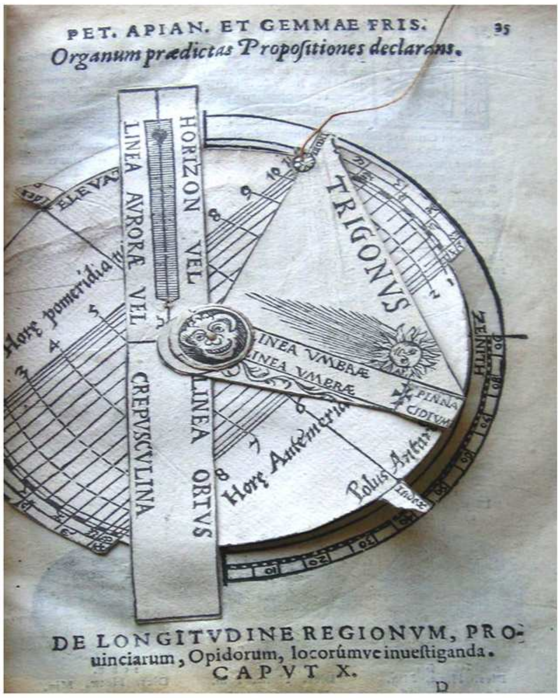
Privé-verzameling; voormalige verzameling van Henri Michel

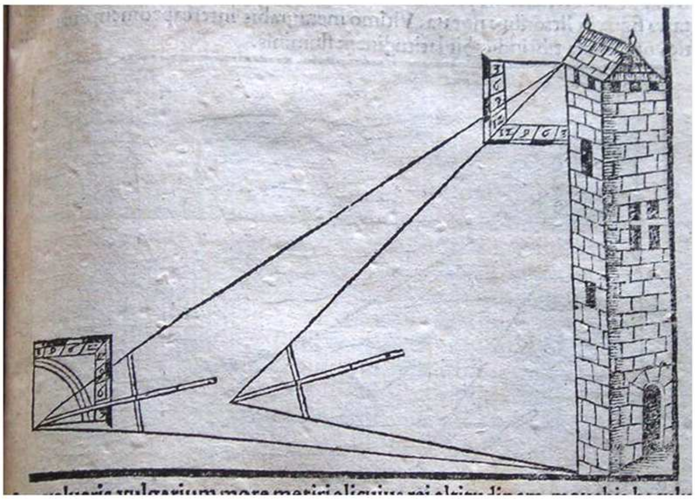
Vanaf 1533 werd deze tekst, die de wetenschappelijke grondslagen legt van de cartografie, gepubliceerd in het Latijn, het Frans, het Nederlands, het Spaans en het Duits.

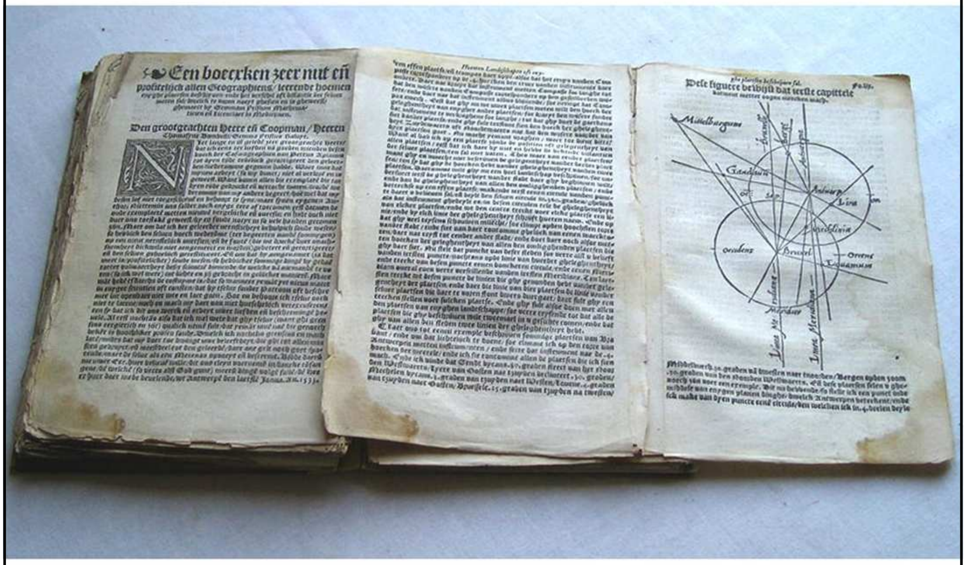

Criſta.
Semicircul' penſilis
altitudinum.
Horizontalis tabula.
Meridies.
Septentrio.

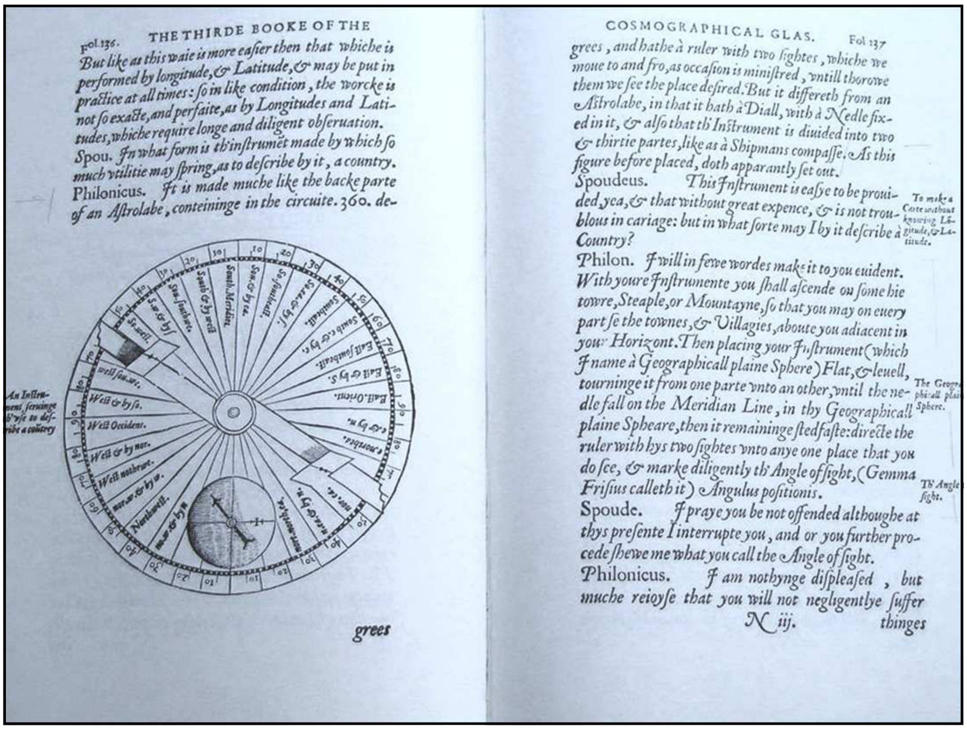


5∞ paſſe
A
B


PET. APIAN. ET GEMMAE FRIS.
Organum prædictas Propoſitiones declarans.
HORIZON VEL
LINEA AVRORÆ VEL
CREPVSCVLINA
LINEA ORTVS
TRIGONVS
ZENITH
LINEA VMBRÆ
Horæ pomeridianæ
Horæ Antemeridianæ
DE LONGITVDINE REGIONVM, PROuinciarum, Opidorum, locorúmve inueſtiganda.
CAPVT X.







Fol.136. THE THIRDE BOOKE OF THE

But like as this waie is more eaſier then that whiche is performed by longitude, & Latitude, & may be put in practice at all times: ſo in like condition, the worcke is not ſo exacte, and perfaite, as by Longitudes and Latitudes, whiche require longe and diligent obſeruation.

Spou. In what form is th'inſtrumēt made by which ſo much vtilitie may ſpring, as to deſcribe by it, a country.

Philonicus. It is made muche like the backe parte of an Aſtrolabe, conteininge in the circuite. 360. de-

An Inſtrument ſeruinge th'vſe to deſcribe a countrey

grees

COSMOGRAPHICAL GLAS. Fol 137

grees, and hathe à ruler with two ſightes, whiche we moue to and fro, as occaſion is miniſtred, vntill thorowe them we ſee the place deſired. But it differeth from an Aſtrolabe, in that it hath à Diall, with à Nedle fixed in it, & alſo that th'Inſtrument is diuided into two & thirtie partes, like as à Shipmans compaſſe. As this figure before placed, doth apparantly ſet out.

Spoudeus. This Inſtrument is eaſye to be prouided, yea, & that without great expence, & is not troublous in cariage: but in what ſorte may I by it deſcribe à Country?

To make a Carte without knowing Longitude, & Latitude.

Philon. I will in fewe wordes make it to you euident. With youre Inſtrumente you ſhall aſcende on ſome hie towre, Steaple, or Mountayne, ſo that you may on euery part ſe the townes, & Villagies, aboute you adiacent in your Horizont. Then placing your Inſtrument (which I name à Geographicall plaine Sphere) Flat, & leuell, tourninge it from one parte vnto an other, vntil the nedle fall on the Meridian Line, in thy Geographicall plaine Spheare, then it remaininge ſtedfaſte: directe the ruler with hys two ſightes vnto anye one place that you do ſee, & marke diligently th'Angle of ſight, (Gemma Friſius calleth it) Angulus poſitionis.

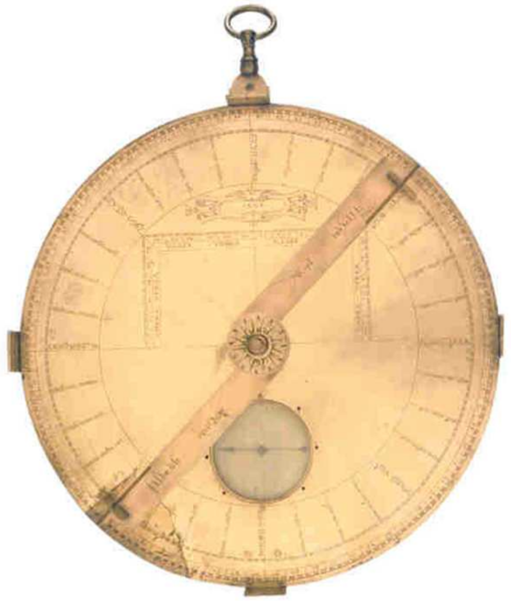
The Geographicall plaine Sphere.

Th'Angle of ſight.

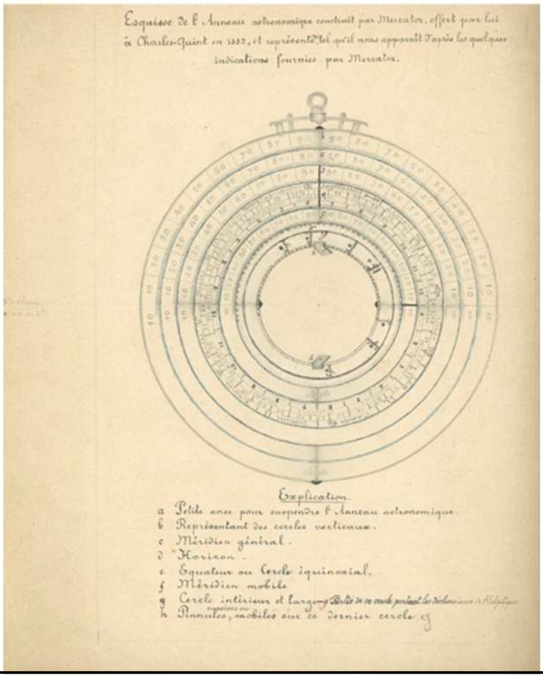
Spoude. I praye you be not offended althoughe at thys preſente I interrupte you, and or you further procede ſhewe me what you call the Angle of ſight.

Philonicus. I am nothynge diſpleaſed, but muche reioyſe that you will not negligentlye ſuffer

N iij. thinges

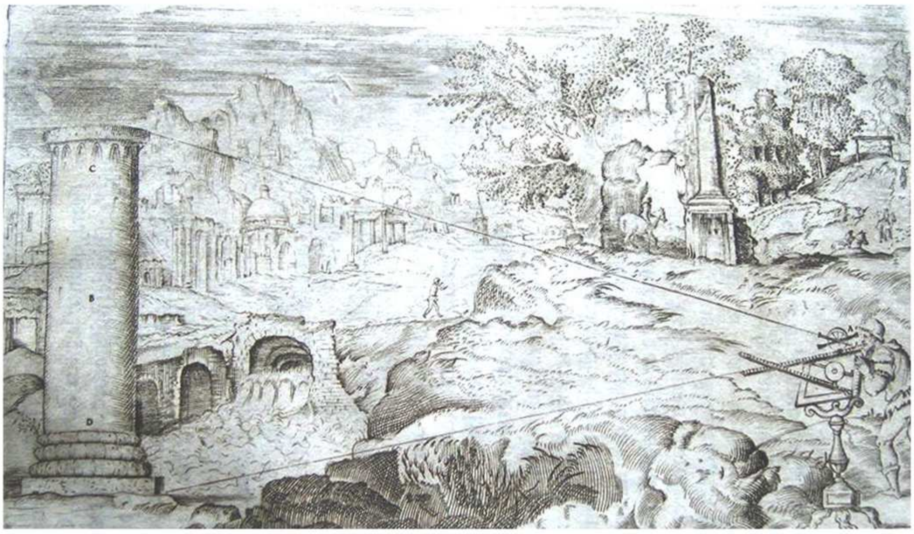


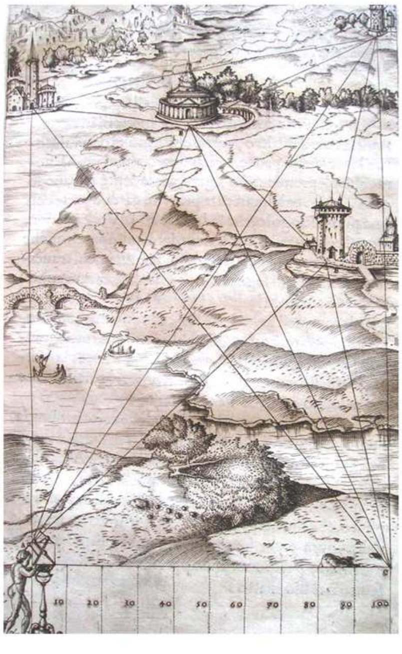
ASTROLABO CATHOLICO.
454

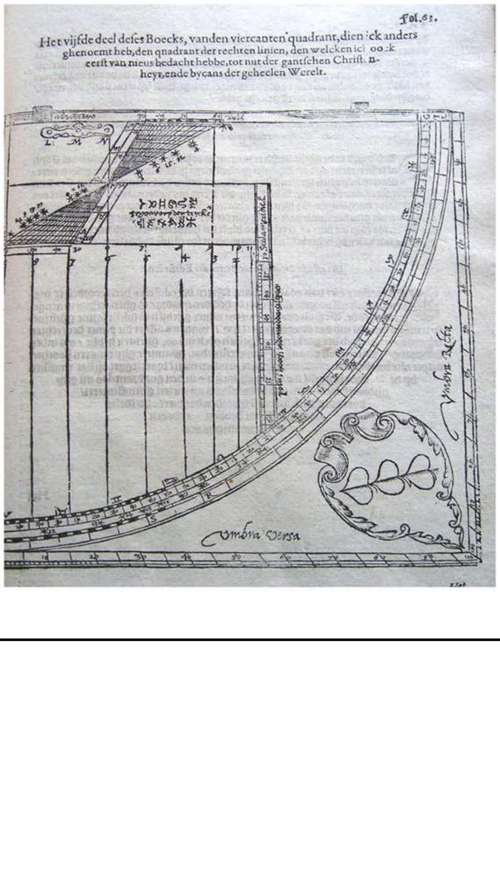


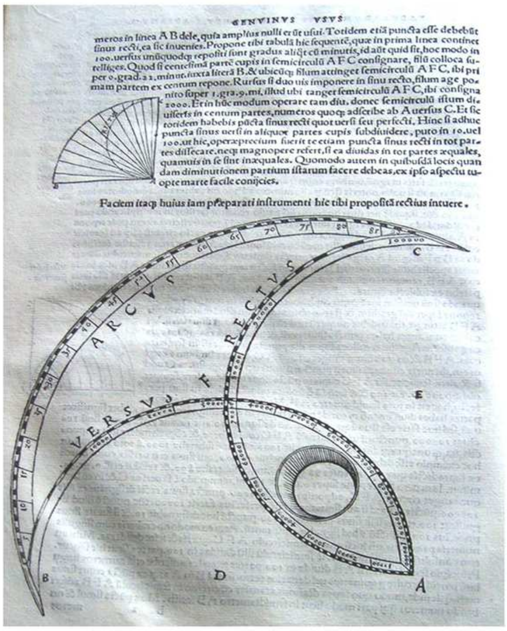
DE FLVVIATICIS

L. lineā ad legē falcidi. bit, quas in longitudines operi neceſſarias explicabit. Hic ego more Pauli iureconſulti, Vlpiani etiam, atq; Vitruuij, aliorumq; veterum, lineam appello, funiculum ex lino, quem barbarè chordulam dixit Accurſius. Sunt enim chordæ, quas in muſicis inſtrumentis




10 20 30 40 50 60 70 80 90 100


Fol. 63.
Het vijfde deel deſes Boecks, vanden viercanten quadrant, dien ick anders
ghenoemt heb, den qnadrant der rechten linien, den welcken ick oock
eerſt van nieus bedacht hebbe, tot nut der gantſchen Chriſte n-
heyt, ende bycans der geheelen Werelt.
Umbra Versa
Umbra Recta



GENVINVS VSVS

meros in linea A B dele, quia amplius nulli erũt uſui. Totidem etiã puncta eſſe debebũt ſinus recti, ea ſic inuenies. Propone tibi tabulã hic ſequentẽ, quæ in prima linea continet 100. uerſus unũquodq; repoſiti ſunt gradus aliq̃t cũ minutis, id aũt quid ſit, hoc modo intelliges. Quod ſi centeſimã partẽ cupis in ſemicirculũ A F C conſignare, filũ colloca ſuper 0. grad. 21. minut. iuxta literã B. & ubicũq; filum attinget ſemicirculũ A F C, ibi primam partem ex centum repone. Rurſus ſi duo uis imponere in ſinu recto, filum age ponito ſuper 1. gra. 9. mi, illud ubi tanget ſemicirculũ A F C, ibi conſigna 2000. Et in hũc modum operare tam diu, donec ſemicirculũ iſtum diuiſeris in centum partes, numeros quoq; adſcribe ab A uerſus C. Et ſic totidem habebis pũcta ſinus recti quot uerſi ſeu perfecti. Hinc ſi adhuc puncta ſinus uerſi in aliquot partes cupis ſubdiuidere, puto in 10. uel 100. ut hic, operæprecium fuerit te etiam puncta ſinus recti in tot partes diſſecare, neq; magnopere refert, ſi ea diuidas in tot partes æquales, quamuis in ſe ſint inæquales. Quomodo autem in quibuſdã locis quandam diminutionem partium iſtarum facere debeas, ex ipſo aſpectu tuopte marte facile conijcies.

Faciem itaq; huius iam præparati inſtrumenti hic tibi propoſitã rectius intuere.

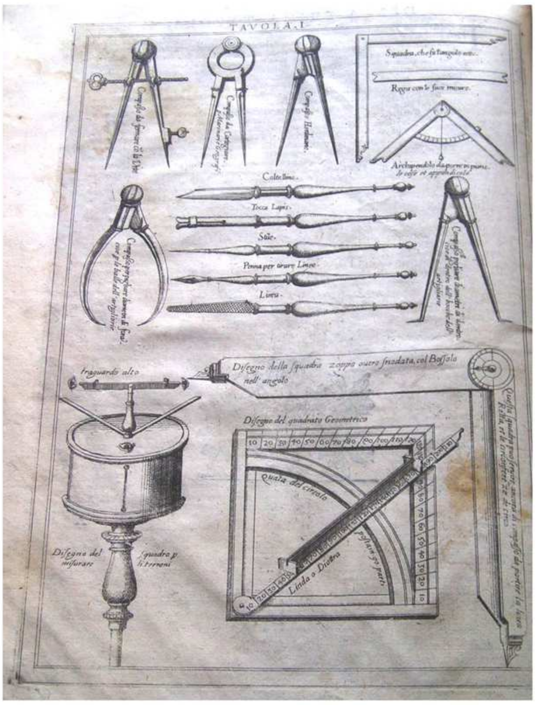
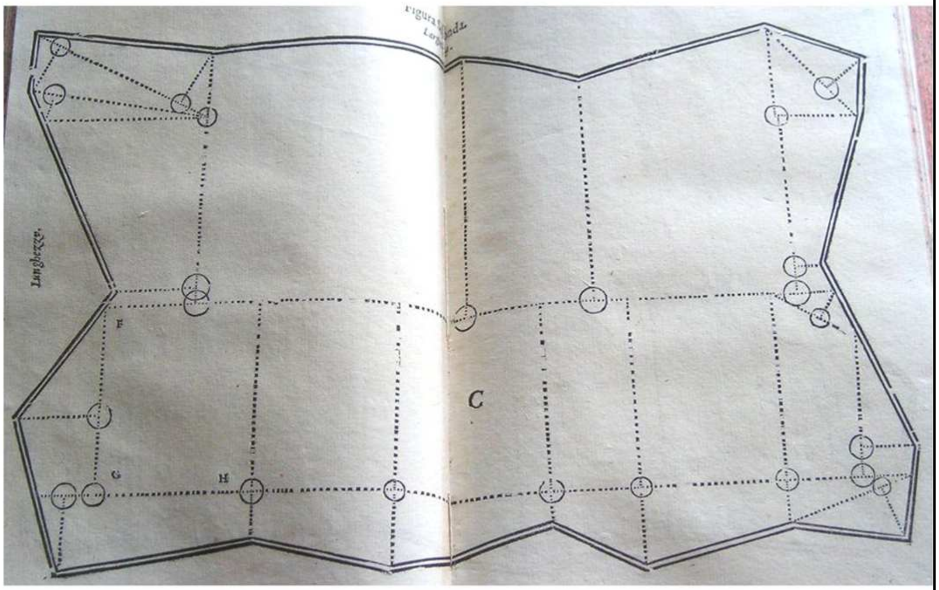
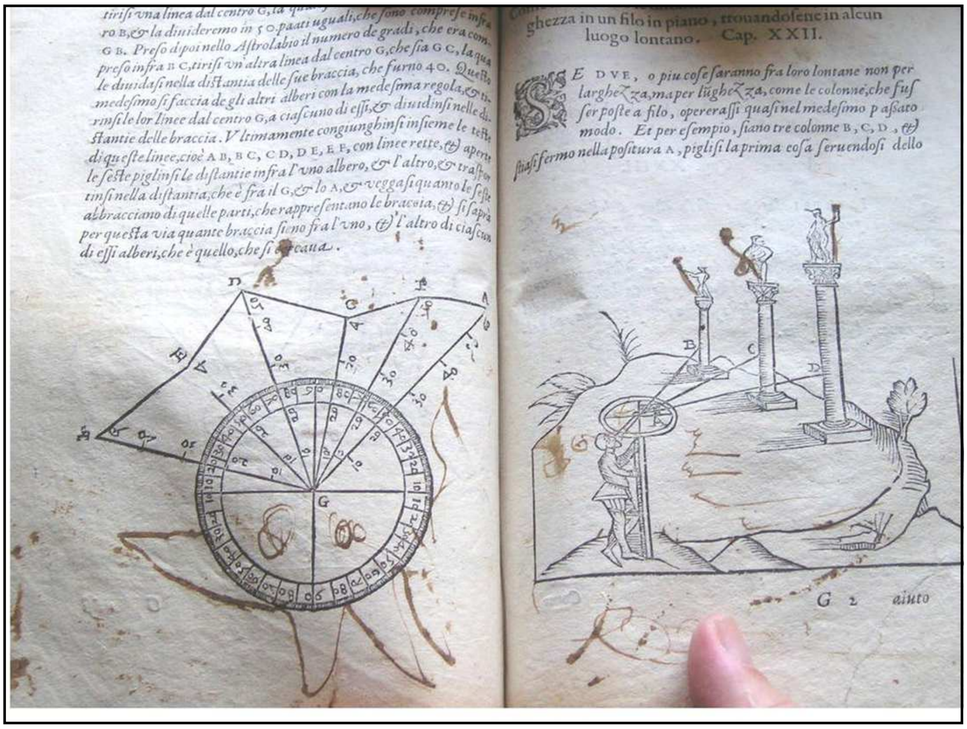


TAVOLA.I
Regga con le ſue miſure.
Coltellino.
Tocca Lapis.
Stile.
Penna per tirare Linee.
Lima.
traguardo alto
Diſegno della ſquadra zoppa ouero ſnodata, col Boſſolo nell' angolo
Diſegno del quadrato Geometrico
Quarta del circolo
Linda o Diottra
Diſegno del miſurare
ſquadra p li terreni



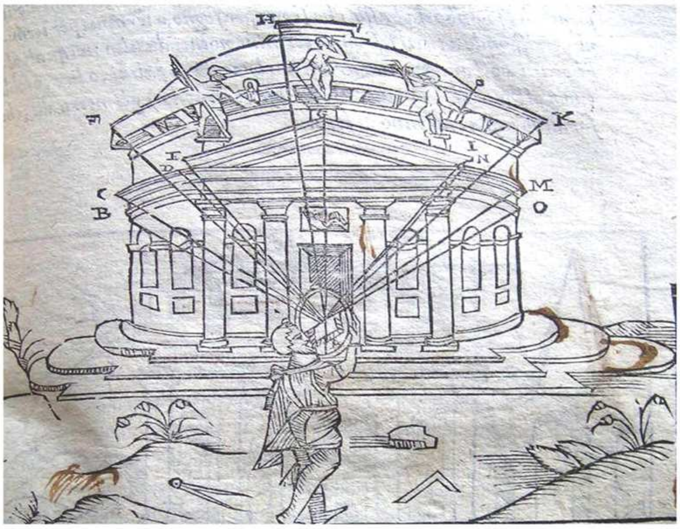
C
F
G
H


tiriſi vna linea dal centro G, la qua...
ro B, & la dimideremo in 50. paati uguali, che ſono compreſe infra
G B. Preſo dipoi nello Aſtrolabio il numero de gradi, che era com-
preſo infra B C, tiriſi vn'altra linea dal centro G, che ſia G C, la qua
le diuidaſi nella diſtantia delle ſue braccia, che furno 40. Queſto
medeſimo ſi faccia de gli altri alberi con la medeſima regola, & ti-
rinſi le lor linee dal centro G, a ciaſcuno di eſſi, & diuidinſi nelle di-
ſtantie delle braccia. Vltimamente congiunghinſi inſieme le teſte
di queſte linee, cioè A B, B C, C D, D E, E F, con linee rette, & aperte
le ſeſte piglinſi le diſtantie infra l'vno albero, & l'altro, & traſpor
tinſi nella diſtantia, che è fra il G, & lo A, & veggaſi quanto le ſeſte
abbracciano di quelle parti, che appreſentano le braccia, & ſi ſaprà
per queſta via quante braccia ſieno fra l'vno, & l'altro di ciaſcun
di eſſi alberi, che è quello, che ſi cercaua.

ghezza in un filo in piano, trouandoſene in alcun
luogo lontano. Cap. XXII.

SE DVE, o piu coſe ſaranno fra loro lontane non per
larghezza, ma per lũghezza, come le colonne, che fuſ
ſer poſte a filo, opereraſſi quaſi nel medeſimo paſſato
modo. Et per eſempio, ſiano tre colonne B, C, D, &
ſtiaſi fermo nella poſitura A, pigliſi la prima coſa ſeruendoſi dello

G 2 aiuto



A miſurare la detta altezza, quando il miſuratore non haueſſe commodità di mouerſi nel piano uerſo l'altezza, ò diſcoſtandoſi da quella; ma ſolamente alla deſtra, ò alla ſiniſtra.

PROPOSTA XIII.

SE haueſti à miſurare la detta altezza potendo ſolamente andare per il piano alla tua deſtra, ò alla ſiniſtra, farai in queſto modo: miſura l'vna, e l'altra dell'altezze, cioè, la A D, & la B D, come t'inſegna la quinta propoſta di queſta parte del libro, e dall'altezza A D leuane l'altezza B D, e quello, che ti rimane ſarà l'altezza A B, che vuoi ſapere.

A miſu-

A miſurare la detta altezza nel modo ſopradetto ſenza il Quadrato Geometrico.

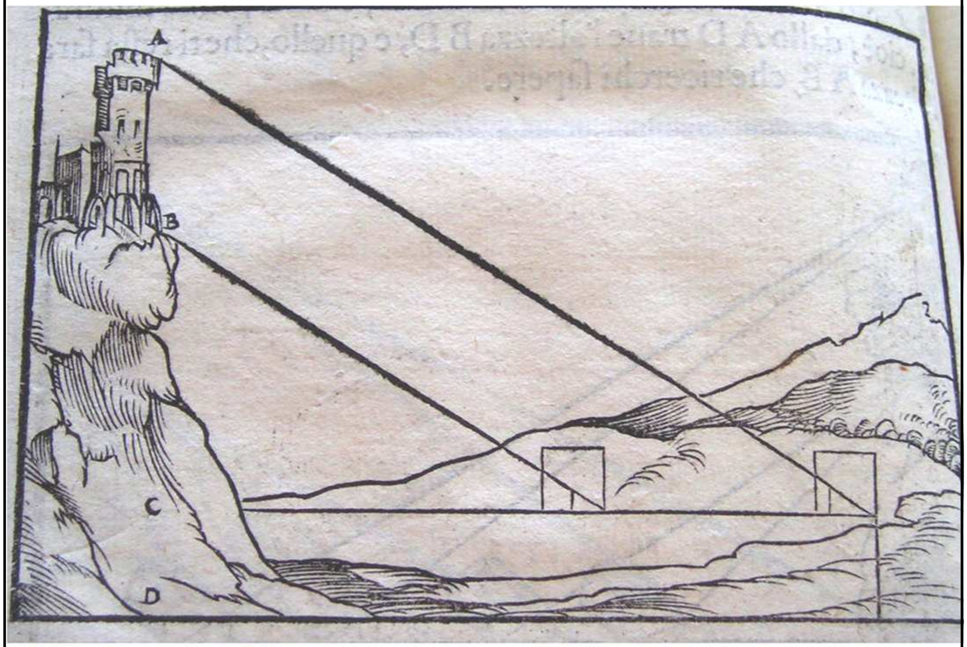
PROPOSTA XIIII.

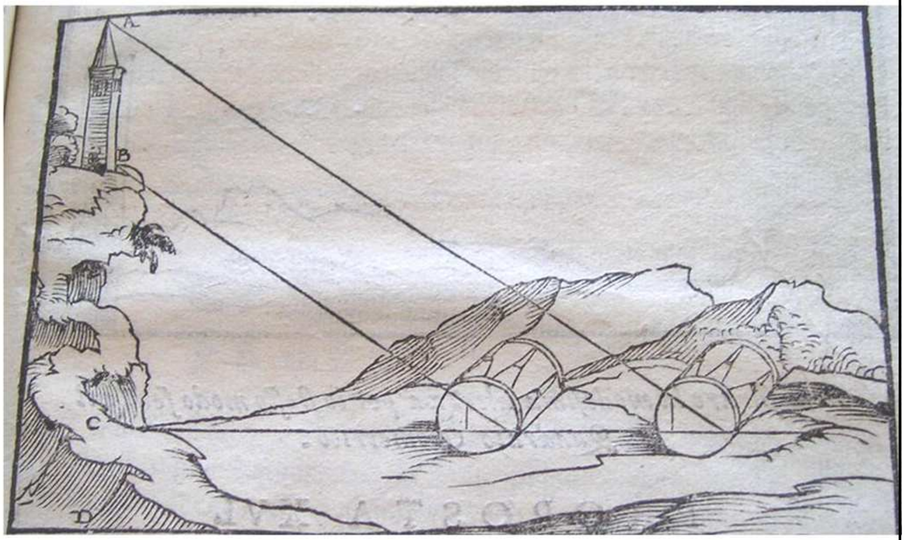
SE per il modo ſopradetto vuoi miſurare queſta altezza, miſura l'altezza A D, & l'altezza B D con il tamburo, come t'inſegna la ſeſta propoſta di queſta parte del libro, e dall'altezza A D leuane ſecondo che hai fatto l'altre volte, l'altezza B D, & il rimanente ſarà quello, che vuoi ſapere.

A miſurare la detta altezza ſenza potere eſtenderſi da niuna p... nel piano, valendoſi d'vn'altra altezza.

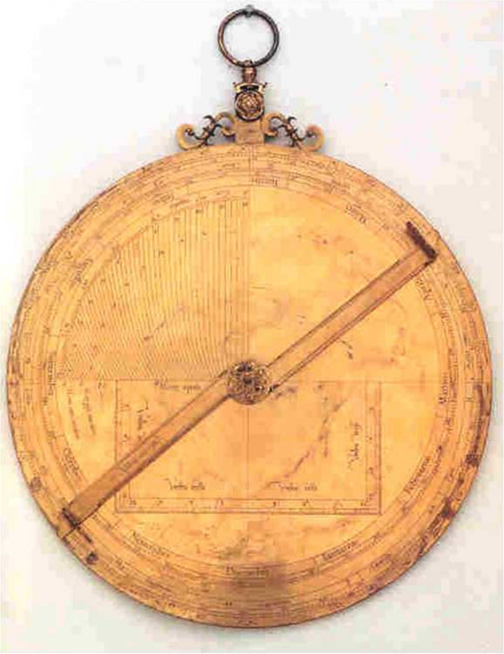
PROPOSTA XV.

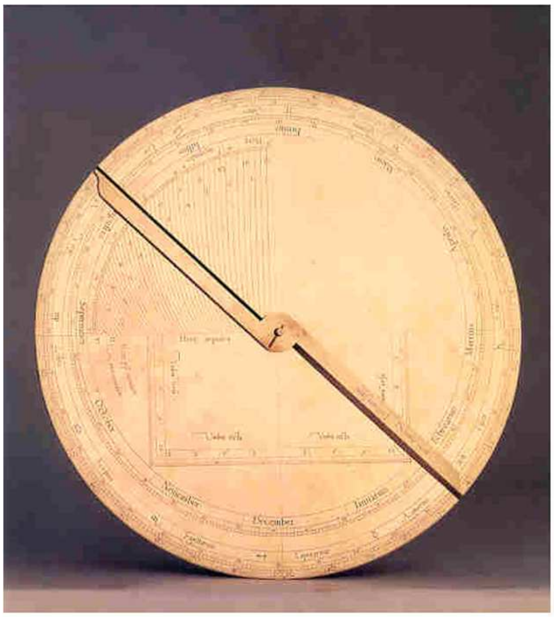
SE ti occorreſſe miſurare la detta altezza A B ſenza p... valere d'vn piano: ma che tu habbi vn'altra altezza, ... quale ne ſappi la quantià, fà in queſto modo. Miſu... co...




A
B
C
D

The Murad III Globes




December
Ianuarius
Martius