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Contact:

Email: [landesbibliothek\(at\)ooe.gv.at](mailto:landesbibliothek(at)ooe.gv.at)

Telephone: +43(732) 7720-53100

Itaque umbræ latitudo quam Tycho tradit, si ad demonstrationum diagrammata numerosque contra naturam suam pertrahatur, Theorematum illa Hipparchi pulcherrima, & estimationis immensæ (ut quæ umbræ cœlo pro scalis injiciunt) penitus evertit. Fatetur id Longimontanus, Tychonis in hac Pragmatiâ minister, ingenuè; methodum hanc dicens irritam fieri, frustraque fuisse veteres. Parcius, inquam ego, hæc artificiis objicienda fuerant. Nam & Ego diu multumque versatus in consideratione Eclipserum, et si tum expertus aliqua nocimenta à causis physicas; at ea non tanta fuerunt per omnes Eclipses constanter, ut universam astronomiam evertebant. Cum ergo rationes Archetypicæ, conformatioñis triū corporum, propinquè admodum ad potissimās & certiores Eclipses alluderent; præcipue ad principia & fines (nā insidiosiores sunt immersiones totales emersionesque) nihil dubitavi, Umbram ex Parallaxibus Diametrisq; & archetypicis & observatis, conformata, sepositis enorribus apparitionibus, & culpā in causarum physicarum inconstantiam conjecta.

PRICE.
ETUM 149.

*Semidiametrum Disci Terræ
formare.*

Si à Parallaxi Lunæ horizontali abstuleris
sesquiplum Parallaxeos Solis horizontalis, relin-
quitur hæc Semidiameter Disci.

PRÆCCE-
PTUM 150

emidiæmetrum Penumbrae & Umbrae
non terræ sed) Luna ipsius, quâ Terram
attinet; vel si ea nulla, latitudi-
nem circuli de Solis Disco
residui, determinare.

Si coniugceris in unam summam semidiametros Solis & Lunæ apparentes, & Parallaxeos Solis horizontalis dimidium circiter, acervabitur semidiameeter Penumbrae.

Ablatà verò semidiarietò ☎ à semidiario
metro Lunæ apparente, relinquitur Semidiame-
ter Lunaris umbræ. At si hoc fieri nequit; hac igi-
tur sublatâ ab illâ si major, restabit latitudo circu-
li de disco Solis residui. Denique si fuerint æqua-
les Semidiametri; ipse mucro umbræ, Terram
stringere arguitur.

PRAECE
PTHM. XI.

Tempus Moræ & Durationis dimidiae;
itemque Incidentia & Emer-
sionis colligere.

*Antilogarithmorum plurimus us
us.*
Tabb. f. 23.
Vt præc. 19

A Rctus inter centra qui est momento Ob-
scurationis profundissimæ Antilogarith-
mum aufer ab Antilog-is & summæ semidd : &
differentiæ restant Antilog i Scrupulorum illici-
Durationis , hic Motæ in Tenebris , semissium.

Tunc ablato S^elis horario ab horario Lunæ
vero in Copulis, residutus horarius à verus
dividat Scrupula utraque; erunt in quotiente
Horæ & Minuta Durationis & Moræ dimidia-
tarum, & his ab illis subtractis, restabit tempus

Incidentiæ vel Emersonis promiscuè sunt enim
æqualia, quia operamur per momentum obscu-
rationis maximæ. Divisionis vice adhibeantur, si
placet, Logarithmi & Cap. X.

*Scrupula defectus prodere, seu maximis
non maximi.*

PRÆCE-
PTUM 152

A summa semidd. obscurantis & obscurati semper aufer arcum inter centra (latitudinarium in articulo maximæ obscurationis) residua erunt Scrupula defectus, ad quodvis momentum.

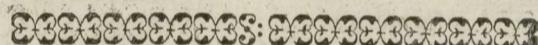
*Scrupula vel defectus, vel diametri lumen-
nis alia, convertere in digitos, id est,
partes duodecimas diametri de-
ficientis: & vicissim.*

PRAECE-
PTIUM 153

A Logarithmo logistico Scrupulorū aufer
L.L.totius diametri luminaris , residuum
ut Log-us ostendit in Quadrivio, duplum digitō-
rum.

Si diameter habet præcisè Sc. 30': quæsita
Scrupula defectus habent è regione in Quadrivio: appositos digitos.

Vicissim additis Log-is totius Diametri in Sexagesimaria, & dupli digitorum in Quadrivicen. conflatur Log-us Scrupulorum defectus in Sexagesimaria.



CAPUT XXXII.

METHODUS ECLIPSES

COMPUTANDI

Quomodo præjudicium fiat, Utrum Co-
pula designata methodo superiore sit verè
Ecliptica: Et sierit Eclipsis Solis,
in quo Climate?

AD Meridiem diei Oppositionalis vel
conjunctionalis inventæ jam, quare Præcepto
loca, Solis verum, Lunæ fictum, &
138.
Nodi medium. Tunc locum Solis &
nodi inter se compara, subtractione factâ antece-
dentiâ à consequenti: considerans major an mi-
nor futura sit illa distantia seu Residuum, in
ipso veræ copulationis articulo. Et siquidem
maius futurum est Residuum, auge illud; sin
minus, minue, tanta portione motus Solis diur-
ni, quâto tempore præterpropter, distare videris
veram Copulam à meridie. Sic emendatum Re-
siduum compara cum terminis Eclipticis. Nam Tabb. fol. 98
si hi termini, lunarium quidem Eclipsum in Ple-
nilunijs, Solarium vero in Novilunijs minimi,
fuerint majores Residuo illo; erit omnino aliqua
Eclipsis, illic Lunæ, hic Solis, in aliqua parte orbis
Terrarum: sin termini maximi fuerint mino-
res Residuo illo, emendato: immunia erunt
luminaria ab obscuratione per universam
Terram. Sin autem residuum, vel distan-
tia Solis & Nodivicini, sic emendata, versabitur
loco medio inter terminos Eclipticos, minimos
cuius-