DISCORSI

E

DIMOSTRAZIONI

MATEMATICHE,

intorno à due nuoue scienze

Attenenti alla

MECANICA & 1 MOVIMENTI LOCALI,

del Signor

GALILEO GALILEI LINCEO,

Filosofo e Matematico primario del Serenissimo Grand Duca di Toscana.

Con vna Appendice del centro di grauità d'alcuni Solidi.



IN LEIDA,
Appresso gli Essevirii. M. D. C. XXXVIII.

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1. This table of contents reversing the essential content of the two first days, was prepared by the Elzevirs.

^{2.} Sometimes called the Sixth Day, this incomplete dialogue was first published in 1718, as part of the second collected edition of Galileo's works. A so-called Fifth Day, first published by Vincenzio Viviani (1622–1703) in 1674, does not belong to this book.

"Natural philosophy" – from Scholastic philosophy vs.

"Scientia" (Lat.), "Scienze" (It.) - secure knowledge

"Theory": An inter-connected system of mathematical propositions, linking measurable parameters to one another and to observable phenomena, from which, with appropriate additional empirical information (e.g. values of parameters), one can derive answers to a wide range of questions, including predictive and counterfactual questions.

Examples: Ptolemaic theories of the Sun, the Moon, Mercury, Venus-Mars-Jupiter-Saturn; Copernican theories of the same; Keplerian theories of the six planets and the Moon