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Preface second edition

This second edition is author revised in 2022 and corrected for several thousand language errors and typographical mistakes in few equations. The sections division, page and equation numbering are preserved, and the intended content is undisturbed.

Research on the a priori of Physics
Geometric Critique of Pure Mathematical Reasoning

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a priori of physic

In a Tribute to
Baruch Spinoza
I exclaim my attitude:
*Nature itself is the master,
in the name* of Physics.*

This radical *ethical* idea for one universal *substance* concept of Nature per se is *essential* for our epistemology for making a fundamental science we call* physics. Through this, we can create enlightenment to understand this universal Nature where we live as members.

Mathematics is a tool made by humans founded on fundamental geometrical objects we invent for our *intuition* as we *perceive extensive* things in nature.

The *perception* of things we can count in *sequential* order from which we invent the number systems.

Our process of counting times of occurrences is often called time. Some people incline in a *paraphysical* way to call a continuous division of this counting for the river of time.

Anyway, promoting ideal laws of mathematics to be a master instance for Nature results in a *paraphysical* religion of *pure mathematics*.

It is important to prevent pure aesthetics abstract artefact mathematical tools when we ethically make scientific work building model structures for the action of Nature where geometric counting and measurement are the origins of our knowledge

Therefore, the subtitle of this bookwork is:

Geometric Critique of Pure Mathematical Reasoning

The *principle* is that the founding concept of mathematical tools must obey ideas we as *substance* relate to *qualities* we exemplify by countable *objects* as measurable reference *quantities* for all *categories* we can extract from Nature.

This ethics is a *Categorical Imperative*.

In honour of Immanuel Kant.