



The Mechanism of Guaranteed Scientific Prediction (Paperback)

By Panchan Aruliah

Booksurge Publishing, United States, 2004. Paperback. Book Condition: New. 203 x 133 mm. Language: English . Brand New Book ***** Print on Demand *****.The Mechanism of Guaranteed Scientific Prediction. What gives us confidence in the prediction of natural events and of manmade mechanisms? Is it simply empirical, in the sense of being expectations based on repeated sequences of past behaviour? Or, is there something else ensuring a certain guarantee? In the footsteps of Galileo, Newton in 1687 introduced abstract force as the cause of the observable effect, rate of change of momentum of mass, lighting the way towards the understanding of the mechanics of motion. In conjunction with the ensuing concept of potential in his theory of gravitation, Newton s laws of motion form the basis of the entire theory of classical mechanics. That force as cause, is a mathematical abstraction, the common currency of exchange linking the various forms of energy, is pointed out. Explicitly, abstract force or cause, measured as its observable effect, the time differential of a state of inertial momentum, or mass x acceleration, is the space derivative of potential energy, through the latter s formulation as the space integral of the same abstract force or...

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