Physical Geometry: A Unified Theory (Paperback)

By Gustavo R Gonzalez-Martin

Createspace Independent Publishing Platform, United States, 2011. Paperback. Condition: New. Language: English . Brand New Book ***** Print on Demand *****.It is generally recognized that there exist problems in Physics. In particular, A. Einstein remained critical of some theoretical ideas in modern physics until his death. He was unsatisfied with his own gravitation and advocated the need for a fundamental unified theory which would include relativity, electromagnetism and gravitation from the beginning. He stated that the concepts of parallelism and differentiation are important. Furthermore, present models for Particle Physics are expressed in terms of a very large number of empirical parameters and a high number of dimensions. They are not clearly related to a fundamental underlying physical interaction. Gravitation and Electrodynamics are faced with serious theoretical challenges, particularly in Cosmic Physics due to the possible existence of dark matter and energy. Differential geometry offers the appropriate mathematical structure to accomplish Einstein s physical ideas. The key is how to differentiate. In the book we use an Ehresmann connection, a concept related to groups. The group is determined from electrodynamics and relativity as the automorphisms of the space-time geometric algebra. Matter and fields are represented by generator-valued tensors. Unification is given...

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