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**Principles of Advanced  
Mathematical Physics**

Volume II

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# Principles Of Mathematical Physics

**Ensheng Dong**



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Nottale's scale relativity The authors address a variety of problems encountered by researchers studying the dynamics of physical systems It explores Madelung fluid from a wave mechanics point of view showing that confinement and asymptotic freedom are the fundamental laws of modern natural philosophy It then probes Nottale's scale transition description offering a sound mathematical principle based on continuous group theory The book provides a comprehensive overview of the matter to the reader via a generalization of relativity a theory of colors and classical electrodynamics Key Features Develops the concept of scale relativity interpreted according to its initial definition enticed by the birth of wave and quantum mechanics Provides the fundamental equations necessary for interpretation of matter describing the ensembles of free particles according to the concepts of confinement and asymptotic freedom Establishes a natural connection between the Newtonian forces and the Planck's law from the point of view of space and time scale transition both are expressions of invariance to scale transition The work will be of great interest to graduate students doctoral candidates and academic researchers working in mathematics and physics

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