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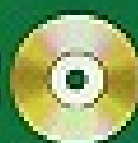
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GERD BAUMANN

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Mathematica in Theoretical Physics: Classical Mechanics and Nonlinear Dynamics

Gerd Baumann

Mathematica for Theoretical Physics: Classical Mechanics and Nonlinear Dynamics This moment variation of Baumann's Mathematica(r) in Theoretical Physics exhibits readers easy methods to clear up actual difficulties and take care of their underlying theoretical techniques whereas utilizing Mathematica(r) to derive numeric and symbolic Mathematica in Theoretical Physics: Classical Mechanics and Nonlinear Dynamics solutions. each one instance and calculation should be evaluated by way of the reader, and the reader can swap the instance calculations and undertake the given code to comparable or comparable problems. The moment variation has been thoroughly revised and increased into volumes: The first quantity covers classical mechanics and nonlinear dynamics. either issues are the root of a typical mechanics course. the second one quantity covers electrodynamics, quantum mechanics, relativity, and fractals and fractional calculus. New examples were additional and the illustration has been transformed to supply a extra interactive problem-solving presentation. This ebook can be utilized as a textbook or as a reference work, by way of scholars and researchers alike. a short thesaurus of phrases and capabilities is inside the appendices. The examples given within the textual content is also interactively used and adjusted for the reader s purposes. The Author, Gerd Baumann, is affiliated with the Mathematical Physics department of the college of Ulm, Germany, the place he's professor. he's the writer of Symmetry research of Differential Equations with Mathematica(r). Dr. Baumann has Mathematica in Theoretical Physics: Classical Mechanics and Nonlinear Dynamics given various invited talks at universities and alike. He frequently hosts seminars and lectures on symbolic computing on the collage of Ulm and at TECHNISCHE UNIVERSITAT MUNCHEN (TUM), Munich."

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