LEM: A New Method for Nonlinear Mechanics (Paperback)

By Ileana Toma

Createspace, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.The Linear Equivalence Method - briefly, LEM - is author s original method. She created it to the purpose of determining and studying the solutions of nonlinear dynamical systems depending on parameters in a classical linear frame and firstly published the idea of LEM 1978. She published two books on LEM in Romanian. The present book is a revised and completed edition of the last one, appeared in 2008 at Editura Tehnica and prefaced by prof. P.P.Teodorescu; it includes, besides the previous results, many other theoretical considerations and applications in a multitude of domains, realized by her and/or by other authors. It is well known that the nonlinear problems involve much more difficulties than the linear ones. Basically, the study of these problems begins with their linearization, which often means to cut off the nonlinear terms or to approximate them by linear ones, which is far from being satisfactory. LEM overcomes this difficulty, establishing a one-to-one correspondence between the solutions of an initial polynomial problem and the analytic solutions of a certain linear PDE. This justifies the denomination...

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