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STANLEY J. FARLOW

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propagates in accordance with the variational principle of stationary traveltime Consequently many seismic problems in elastic continua can be conveniently formulated and solved using the calculus of variations In the Appendices we describe two mathematical concepts that are used in the book namely homogeneity of a function and Legendre s transformation This section also contains a list of symbols *Elements of Partial Differential Equations* Ian N. Sneddon,2013-01-23 This text features numerous worked examples in its presentation of elements from the theory of partial differential equations emphasizing forms suitable for solving equations Solutions to odd numbered problems appear at the end 1957 edition

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interest to mechanical civil and environmental engineers as well as applied scientists The material is also suitable for undergraduate and beginning graduate students as well as for review by practising engineers **Numerical Solution of Ordinary Differential Equations** L.F. Shampine,2018-10-24 This new work is an introduction to the numerical solution of the initial value problem for a system of ordinary differential equations The first three chapters are general in nature and chapters 4 through 8 derive the basic numerical methods prove their convergence study their stability and consider how to implement them effectively The book focuses on the most important methods in practice and develops them fully uses examples throughout and emphasizes practical problem solving methods

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