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the theory of vibration particularly advanced theory is scattered over a large number of publications relating to different disciplines what has been attempted in the present book is a comprehensive consolidation of them and its presentation in a concise manner for the benefit of those aspiring to specialise in vibration studies at postgraduate and doctoral level the contents of this book have got crystallised over a period of 25 years while teaching and guiding doctoral level research the emphasis in this book is on analysis of continuous rather than discrete system models a concise treatment of variational principles and their application to vibration problems is given next vibration theories of viscoelastic materials in longitudinal vibration and lateral vibration are also considered at length

solutions to problems of free and forced vibrations are presented the book seeks to explain to students a large variety of problems of one dimensional structures

discusses in a concise but thorough manner fundamental statement of the theory principles and methods of mechanical vibrations

beginning in 1985 one section is devoted to a special topic

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