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this book will be of interest to mechanical engineers aerospace engineers and engineering science and mechanics faculty the main objective of the book is to present a mathematically rigorous approach to vibrations one that not only permits efficient formulations and solutions to problems but also enhances understanding of the physics of the problem the book takes a very broad view approach to the subject so that the similarity of dynamic characteristics of vibrating systems will be

understood

modeling analysis and simulation everything vibration engineering students need to succeed including late breaking advances in this ever changing field advanced mechanical vibration covers modeling and analysis of vibrating systems with damping and gyroscopic effects dynamics of combined distributed lumped systems and approximate methods for solutions of complex vibration problems which are often overlooked in other such textbooks case studies and pre coded matlab toolboxes for vibration analysis and simulation help readers understand and retain the most important concepts this is an ideal text for an upper undergraduate or graduate course in vibration engineering includes both analytical and numerical methods for vibration analysis addresses the latest developments in this fast changing field prepares the student and professional for advanced r d includes chapter ending questions with faculty only answer key multiple case studies and matlab toolkit for simulations si units are used with a table converting to us

the papers published in this volume represent the contents of the symposium on the vibration and control of continuous systems held in orlando florida november 5 11 2000 p iii

structural vibration analysis and damping many structures suffer from unwanted vibrations and although careful analysis at the design stage can minimize these the vibration levels of many structures are excessive in this book the entire range of methods of controlling this structural vibration both by damping and by excitation control are described in a single volume clear and concise descriptions are given of the techniques for mathematically modelling real structures so that the equations which describe the motion of such structures can be derived this approach leads naturally to a comprehensive discussion of the analysis of typical models of vibrating structures excited by a range of periodic and random inputs careful consideration is also given to the sources of excitation both internal and external and the effects of isolation and transmissibility a major part of the book is devoted to damping of structures and many sources of damping are considered as are the ways of changing damping using both active and passive methods the numerous worked examples liberally distributed throughout the text amplify and clarify the theoretical analysis presented and particular attention is paid to the meaning and interpretation of results further enhancing the scope and applications of analysis in addition 80 problems are included with answers and worked solutions given for most of them it will provide engineering students designers and professional engineers with a detailed insight into the principles involved in the analysis and damping of structural vibration while presenting a sound theoretical basis for further study

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