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this book offers a collection of original peer reviewed contributions presented at the 3rd international and 18th national conference on machines and mechanisms inacomm organized by division of remote handling robotics bhabha atomic research centre mumbai india from december 13th to 15th 2017 inacomm 2017 it reports on various theoretical and practical features of machines mechanisms and robotics the contributions include carefully selected novel ideas on and approaches to design analysis prototype development assessment and surveys applications in machine and mechanism engineering serial and parallel manipulators power reactor engineering autonomous vehicles engineering in medicine image based data analytics compliant mechanisms and safety mechanisms are covered further papers provide in depth analyses of data preparation isolation and brain segmentation for focused visualization and robot based neurosurgery new approaches to parallel mechanism based master slave manipulators solutions to forward kinematic problems and surveys and optimizations based on historical and contemporary compliant mechanism based design the spectrum of contributions on theory and practice reveals central trends and newer branches of research in connection with these topics

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

a detailed and extensive description regarding the theory of passive dynamic absorbers not requiring additional energy sources considers the peculiarities in solving vibration absorption problems using the simplest double mass linear model of the protected structure and absorber examines design schemes and offers data on the efficiency of complicated absorber models deals with the problems of vibration damping of continuous and multimass systems describes practical applications of the vibration protection theory for various constructions and objects

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

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