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Karnovsky, Evgeniy Lebed, 2016-05-09 This text is an advancement of the theory of vibration protection of mechanical systems with lumped and distributed parameters The book offers various concepts and methods of solving vibration protection problems discusses the advantages and disadvantages of different methods and the fields of their effective applications Fundamental approaches of vibration protection which are considered in this book are the passive parametric and optimal active vibration protection The passive vibration protection is based on vibration isolation vibration damping and dynamic absorbers Parametric vibration protection theory is based on the Shchipanov Luzin invariance principle Optimal active vibration protection theory is based on the Pontryagin principle and the Krein moment method The book also contains special topics such as suppression of vibrations at the source of their occurrence and the harmful influence of vibrations on humans p Numerous examples which illustrate the theoretical ideas of each chapter are included This book is intended for graduate students and engineers It is assumed that a reader has working knowledge of theory of vibrations differential equations and complex analysis About the Authors Igor A Karnovsky Ph D Dr Sci is a specialist in structural analysis theory of vibration and optimal control of vibration He has 40 years of experience in research teaching and consulting in this field and is the author of more than 70 published scientific papers including two books in Structural Analysis published with Springer in 2010 2012 and three handbooks in Structural Dynamics published with McGraw Hill in 2001 2004 He also holds a number of vibration control related patents Evgeniy Lebed Ph D is a specialist in applied mathematics and engineering He has 10 years of experience in research teaching and consulting in this field The main sphere of his research interests are qualitative theory of differential equations integral transforms and frequency domain analysis with application to image and signal processing He is the author of 15 published scientific papers and a US patent 2015 **Solutions Manual to Accompany**

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Proceedings of the 7th International Conference on Industrial Engineering (ICIE 2021) Andrey A. Radionov, Vadim R. Gasiyarov, 2022-01-01. This book highlights recent findings in industrial manufacturing and mechanical engineering and provides an overview of the state of the art in these fields, mainly in Russia and Eastern Europe. A broad range of topics and issues in modern engineering is discussed, including the dynamics of machines and working processes, friction, wear, and lubrication in machines, surface transport, and technological machines, manufacturing engineering of industrial facilities, materials engineering, metallurgy, control systems, and their industrial applications, industrial mechatronics, automation, and robotics. The book gathers selected papers presented at the 7th International Conference on Industrial Engineering (ICIE) held in Sochi, Russia, in May 2021. The authors are experts in various fields of engineering, and all papers have been carefully reviewed. Given its scope, the book will be of interest to a wide readership, including mechanical and production engineers, lecturers in engineering disciplines, and engineering graduates.

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Vibrations and Stability Jon Juel Thomsen, 2021-03-18 An ideal text for students that ties together classical and modern topics of advanced vibration analysis in an interesting and lucid manner. It provides students with a background in elementary vibrations with the tools necessary for understanding and analyzing more complex dynamical phenomena that can be encountered in engineering and scientific practice. It progresses steadily from linear vibration theory over various levels of nonlinearity to bifurcation analysis, global dynamics, and chaotic vibrations. It trains the student to analyze simple models, recognize nonlinear phenomena, and work with advanced tools such as perturbation analysis and bifurcation analysis. Explaining theory in terms of relevant examples from real systems, this book is user friendly and meets the increasing interest in non-linear dynamics in mechanical, structural engineering, and applied mathematics and physics. This edition includes a new chapter on the useful effects of fast vibrations and many new exercise problems.

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