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with computational analysis. This work includes example problems and explanatory figures, biographies of renowned contributors, and access to a website providing supplementary resources.

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encourages students to experiment with equations of vibration by allowing easy what if solutions. This also allows students to make precision response plots, computation of frequencies, damping ratios, and mode shapes. This encourages students to learn vibration in an interactive way, to solidify the design components of vibration and to integrate nonlinear vibration problems earlier in the text. The text explicitly addresses design by grouping design related topics into a single chapter and using optimization, and it connects the computation of natural frequencies and mode shapes to the standard

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eigenvalue problem, providing efficient and expert computation of the modal properties of a system. In addition, the text covers modal testing methods, which are typically not discussed in competing texts. software to include Mathematica and MathCAD as well as MATLAB in each chapter, updated Engineering Vibration Toolbox and web site; integration of the numerical simulation and computing into each topic by chapter; nonlinear considerations added at the end of each early chapter through simulation; additional problems and examples; and, updated solutions manual available on CD for use in teaching.

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It uses windows to remind the reader of relevant facts outside the flow of the text development. It introduces modal analysis (both theoretical and experimental). It introduces dynamic finite element analysis. There is a separate chapter on design and special sections to emphasize design in vibration.

Engineers are becoming increasingly aware of the problems caused by vibration in engineering design, particularly in the areas of structural health monitoring and smart structures. Vibration is a constant problem

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as it can impair performance and lead to fatigue, damage and the failure of a structure. Control of vibration is a key factor in preventing such detrimental results. This book presents a homogenous treatment of vibration by including those factors from control that are relevant to modern vibration analysis, design and measurement. Vibration and control are established on a firm mathematical basis and the disciplines of vibration, control, linear algebra, matrix computations, and applied functional analysis are connected. Key Features: Assimilates the discipline of



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contemporary structural vibration with active control Introduces the use of Matlab into the solution of vibration and vibration control problems Provides a unique blend of practical and theoretical developments Contains examples and problems along with a solutions manual and power point presentations

Vibration with Control is an essential text for practitioners, researchers, and graduate students as it can be used as a reference text for its complex chapters and topics, or in a tutorial setting for those improving their knowledge of vibration and learning about control for the first time. Whether or

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not you are familiar with vibration and control, this book is an excellent introduction to this emerging and increasingly important engineering discipline.

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upon by other texts, including modern computerized data acquisition systems, electrical output measuring devices, and in-depth coverage of experimental uncertainty analysis.

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applied mechanics; bio mechanics; computational mechanics; dynamic systems and control; energetics; mechanics of materials; processing; thermal science; and tribology. Professor Marshek, the consulting editor for dynamic systems and control, and I are pleased to present the second edition of Vibration of Discrete and Continuous Systems by Professor Shabana. We note that this is the second of two volumes. The first deals with the theory of vibration.

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