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The vibration-measuring instruments, along with vibration exciters, experimental modal analysis procedures, and machine condition monitoring, are presented in Chapter 10. Similarly, all the numerical integration methods applicable to single and multi-degree of freedom systems, as well as continuous systems, are unified in Chapter 11.

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In Chapter 3 the section on self-excitation and stability analysis has been rewritten and expanded. A section on earthquake response spectra has been added to Chapter 4. Two new sections, Using Newton's Second Law to Drive Equations of Motion and Free Vibration of Undamped Systems, have been added to Chapter 6.

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Experimental techniques in vibration analysis are discussed at length in a separate chapter and several classical case studies are presented. Though the book is primarily intended for an undergraduate course in mechanical vibrations, it covers some advanced topics which are generally taught at postgraduate level.

Rao Mechanical Vibrations Chapter 3 Solutions MECHANICAL VIBRATIONS by J. P. DEN HARTOG. Originally published in 1917. PREFACE: This book grew from a course of lectures given to students in the Design School of the Westinghouse Company in Pittsburgh, Pa., in the period from 1926 to 1932, when the subject had not yet been introduced into the curriculum of our technical schools.

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