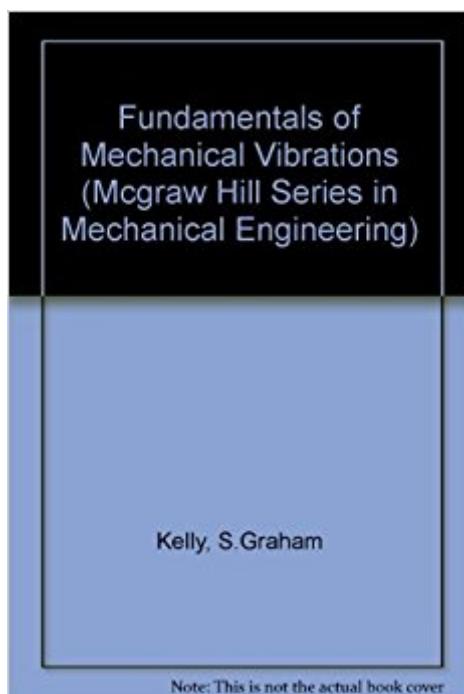


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Synopsis

This book covers free and forced vibrations of one- and multi-degree-of-freedom-systems-devoting over one half to one-degree. The text also contains many unique topics, such as shock isolation for short and long duration pulses, chaos, and discrete modeling of continuous systems. Brief chapters on continuous systems and nonlinear systems are included for reference. The first two chapters allow students to sharpen their skills in modeling physical systems for engineering applications, especially applied to dynamic systems. The principles of dynamics are applied consistently to model physical systems. Emphasis is placed on applications, energy methods and the equivalent systems method. In addition, an entire chapter is devoted to vibration control. The text is accompanied by a software disk. The programs include simulation of vibrating systems, numerical methods used to solve vibrations problems, and a variety of other types of problems to solve.

Book Information

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