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*Paul H. Wirsching, Thomas L Paez, Keith Ortiz, Physics*

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The most comprehensive text and reference available on the study of random vibrations, this book was designed for graduate students and for mechanical, structural, and aerospace engineers. *Random Vibrations: Theory and Practice* encompasses all the key topics, including fundamental background material, random vibration development with applications to design, and random signal analysis. The broad scope of this text makes it useful both as a clear and thorough introduction to the field and as an authoritative reference for practitioners who wish to investigate special topics.

In addition to coverage of background topics in probability, statistics, and random processes, this text develops methods for analyzing and controlling random vibrations. It explains how to avoid fatigue and fracture brought on by random vibration stresses and describes how to analyze random signals obtained for field and test measurements. Detailed examples employ random signals taken from actual random sources, and an abundance of figures, tables and charts support and clarify the text.

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