



Harris' Shock and Vibration Handbook (McGraw-Hill Handbooks)

By Allan Piersol, Thomas Paez

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Harris' Shock and Vibration Handbook (McGraw-Hill Handbooks) By Allan Piersol, Thomas Paez

The classic reference on shock and vibration, fully updated with the latest advances in the field

Written by a team of internationally recognized experts, this comprehensive resource provides all the information you need to design, analyze, install, and maintain systems subject to mechanical shock and vibration. The book covers theory, instrumentation, measurement, testing, control methodologies, and practical applications.

Harris' Shock and Vibration Handbook, Sixth Edition, has been extensively revised to include innovative techniques and technologies, such as the use of waveform replication, wavelets, and temporal moments. Learn how to successfully apply theory to solve frequently encountered problems. This definitive guide is essential for mechanical, aeronautical, acoustical, civil, electrical, and transportation engineers.

EVERYTHING YOU NEED TO KNOW ABOUT MECHANICAL SHOCK AND VIBRATION, INCLUDING

- Fundamental theory
- Instrumentation and measurements
- Procedures for analyzing and testing systems subject to shock and vibration
- Ground-motion, fluid-flow, wind- and sound-induced vibration
- Methods for controlling shock and vibration
- Equipment design
- The effects of shock and vibration on humans

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Editorial Review

From the Back Cover

EVERYTHING ENGINEERS MUST KNOW ABOUT MECHANICAL SHOCK AND VIBRATION...IN ONE CONVENIENT REFERENCE!

Here is the classic work on shock and vibration--expanded and updated to incorporate the latest advances, theories, and materials--and the only book you'll ever need on the subject.

Written by a team of hands-on internationally recognized experts, HARRIS' SHOCK AND VIBRATION HANDBOOK logically covers three major subject areas:

- * The basic theory of shock and vibration
- * Measurement, testing, design, and control methodologies
- * Practical applications of theory

This new Fifth Edition has been completely revised to provide coverage of critical topics such as:

- * Application of computers to shock and vibration problems
- * Recent advances in the analysis of vibration data
- * The use of composite materials
- * High-intensity sound-induced vibration
- * Protection against injuries from shock and vibration
- * Design of equipment for shock and vibration environments
- * And much more!

Invaluable to engineers specializing in mechanical, aeronautical, acoustical, civil, electrical, and transportation engineering, HARRIS' SHOCK AND VIBRATION HANDBOOK is a valuable guide to the solution of shock and vibration problems.

About the Author

Allan G. Piersol was an engineer in private practice, specializing in analysis of data from, and the design of structures for shock, vibration, and acoustical environments. He was a licensed engineer in both mechanical and safety engineering. The author of five books and chapter author of five additional handbooks dealing with these subjects, Mr. Piersol also taught graduate courses in mechanical shock and vibration at Loyola Marymount University in Los Angeles, California.

Thomas L. Paez, recently a distinguished member of the technical staff at Sandia National Laboratories, works as a consultant specializing in probabilistic structural dynamics and validation of mathematical models. He is the author of a text on random vibrations and many chapters and papers dealing with random vibrations, mechanical shock, and model validation. Mr. Paez frequently teaches short courses on random vibrations and mechanical shock.

Users Review

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