

# Nonlinear Random Vibration, Second Edition: Analytical Techniques and Applications (Advances in Engineering Series)

Cho W.S. To



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This second edition of the book, *Nonlinear Random Vibration: Analytical Techniques and Applications*, expands on the original edition with additional detailed steps in various places in the text. It is a first systematic presentation on the subject. Its features include:

• a concise treatment of Markovian and non- Markovian solutions of nonlinear stochastic differential equations,

- exact solutions of Fokker-Planck-Kolmogorov equations,
- methods of statistical linearization,
- statistical nonlinearization techniques,
- methods of stochastic averaging,
- truncated hierarchy techniques, and
- an appendix on probability theory.

A special feature is its incorporation of detailed steps in many examples of engineering applications.

Targeted audience: Graduates, research scientists and engineers in mechanical, aerospace, civil and environmental (earthquake, wind and transportation), automobile, naval, architectural, and mining engineering.

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