

Computer-based analysis of the stochastic stability of mechanical structures driven by white and colored noise

Azizi, Aydin, author

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Abstrak

This book provides a concise introduction to the behavior of mechanical structures and testing their stochastic stability under the influence of noise. It explains the physical effects of noise and in particular the concept of Gaussian white noise. In closing, the book explains how to model the effects of noise on mechanical structures, and how to nullify/compensate for it by designing effective controllers.