

Principles of Vibration



With Principles of Vibration, Benson Tongue takes a refreshingly informal approach to the understanding and analysis of vibrations. The text strikes the right balance between detail and accessibility with an easily digestible style of writing yet no sacrifice of depth of analysis. The author provides a basic understanding of the main principles of vibrations, presenting the core ideas and theories that define the field. The volume follows the current trend of incorporating more modal analysis and linear algebra to solve vibrations problems, and utilizes MATLAB software. Starting with classical material--single degree of freedom systems--the text branches out into modern material, with an emphasis on multiple degree of freedom systems. Numerous problems challenge students to think and analyze outcomes of various techniques. The text features a chapter on Seat of the Pants engineering which brings together various approaches to answering or analyzing vibration problems, and applies them to all systems that have been previously discussed. Tongue's lucid step-by-step approach is in sharp contrast to other books in the field that overemphasize detail and complexity to the detriment of clarity.

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