



Vibration and Acoustics: Measurement and Signal Analysis

By Prof C Sujatha

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"This book explains all topics concerning vibration and acoustic measurements, as well as signal analysis techniques, in a simple and concise manner. It comprehensively covers: Experimental techniques in vibration and acoustic measurements A wide range of vibrations transducers and excitors as well as other equipments that go hand in hand with vibration measurement Signal analysis fundamentals, and processing of random signals Vibration monitoring techniques for machinery diagnostics, and modal analysis Acoustic transducers, and common acoustic measurements Case studies in vibration and acoustic measurements The book contains sufficient mathematics for a better understanding of the theory behind the topics. Fundamental concepts of the theory of vibration and acoustics have also been presented. *Vibration and Acoustics: Measurement and Signal Analysis* is the culmination of the author's more than two decades of teaching and research experience in these areas. It will serve as a source of reference for postgraduate students, researchers, academicians, practicing engineers and professionals in the field of vibration and acoustics."

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Editorial Review

About the Author

Prof. C. Sujatha is with the Machine Design Section, Department of Mechanical Engineering, Indian Institute of Technology, Madras, Chennai, India. She obtained her B.Sc. (Engg.) from Kerala University, and both M.S. (Electrical Engineering) and Ph.D. (Applied Mechanics) from IIT Madras. She has more than 25 years of experience in teaching, research and consultancy in the areas of machine dynamics, vehicular vibration, acoustics, instrumentation and signal analysis machinery condition monitoring, etc. She is credited with around 100 publications in journals and proceedings of conferences and has guided 7 Ph.D. scholars. She has coordinated a large number of consultancy and sponsored research projects.

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