



Simple and Complex Vibratory Systems

Eugen Skudrzyk

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Convinced that methods of classical physics, involving laborious calculations, are of little use in computing and interpreting complex vibratory systems, the author has developed new methods, based on the theory of electrical networks, that he considers far more useful. 'A theory of vibrations that does not make full use of these modern methods of network theory,' he remarks in the introduction, 'would be similar to a treatise on physics that stops whenever calculus is required.' After discussing the problems encountered in modern vibration studies and presenting the fundamentals of network theory, Dr. Skudrzyk proves that a homogeneous vibrator of any complexity can be represented by a canonic circuit and demonstrates that such circuits are more concise and more illustrative of the behavior of vibratory systems than the inhomogeneous systems, including point-mass springs, mechanical filters, coupled vibrators, vibrating plates, sound sources, and many others. Scientists and engineers will find this comprehensive study, illustrated with numerous examples and diagrams, a valuable working guide as well as a major contribution to the field. For acoustical technicians, it offers the background needed for dealing effectively with problems of vibration isolation and noise abatement.

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