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Vibration Analysis and Structural Dynamics for Civil Engineers: Essentials and Group-Theoretic Formulations

By Alphose Zingoni

Taylor & Francis Ltd. Paperback. Condition: new. BRAND NEW, Vibration Analysis and Structural Dynamics for Civil Engineers: Essentials and Group-Theoretic Formulations, Alphose Zingoni, Appeals to the Student and the Seasoned Professional While the analysis of a civil-engineering structure typically seeks to quantify static effects (stresses and strains), there are some aspects that require considerations of vibration and dynamic behavior. Vibration Analysis and Structural Dynamics for Civil Engineers: Essentials and Group-Theoretic Formulations is relevant to instances that involve significant time-varying effects, including impact and sudden movement. It explains the basic theory to undergraduate and graduate students taking courses on vibration and dynamics, and also presents an original approach for the vibration analysis of symmetric systems, for both researchers and practicing engineers. Divided into two parts, it first covers the fundamentals of the vibration of engineering systems, and later addresses how symmetry affects vibration behavior. Part I treats the modeling of discrete single and multi-degree-of-freedom systems, as well as mathematical formulations for continuous systems, both analytical and numerical. It also features some worked examples and tutorial problems. Part II introduces the mathematical concepts of group theory and symmetry groups, and applies these to the vibration of a diverse range of problems in...



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