



Flow-induced Vibration of Power and Process Plant Components: A Practical Workbook

By M.K. Au-Yang

John Wiley and Sons Ltd. Hardback. Book Condition: new. BRAND NEW, Flow-induced Vibration of Power and Process Plant Components: A Practical Workbook, M.K. Au-Yang, This volume is a valuable, single source of information on the most common flow-induced vibration problems in power and process plant components. Based on the author's own experience that most errors in engineering analysis come from confusions in the units, the author begins with a short chapter on units and dimensions. He then provides step-by-step examples in dual US and SI units, leading to the final objective of design analysis, problem solving, diagnosis and trouble shooting in the following areas: fundamentals of vibration; acoustics and structural dynamics; vibration of structures in quiescent fluids; vortex-induced vibration; turbulence-induced vibration; impact, fatigue and wear caused by flow-induced vibration; acoustically induced vibration; and signal analysis and diagnostic techniques. Emphasis is placed on the physics of the phenomenon and most of the work examples can be solved with pocket calculators.



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