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this book applies vibration engineering to turbomachinery covering installation maintenance and operation with a practical approach based on clear theoretical principles and formulas the book is an essential how to guide for all professional engineers dealing with vibration issues within turbomachinery vibration problems in turbines large fans blowers and other rotating machines are common issues within turbomachinery applicable to industries such as oil and gas mining cement pharmaceutical and naval engineering the ability to predict vibration based on frequency spectrum patterns is essential for many professional engineers in this book the theory behind vibration is clearly detailed providing an easy to follow methodology through which to calculate vibration propagation describing lateral and torsional vibration and how this impacts turbine shaft integrity the book uses mechanics of materials theory and formulas alongside the matrix method to provide clear solutions to vibration problems additionally it describes how to carry out a risk assessment of vibration fatigue other topics covered include vibration control techniques the design of passive and active absorbers and rigid non rigid and z foundations the book will be of interest to professionals working with turbomachinery naval engineering corps and those working on iso standards 10816 and 13374 it will also aid mechanical engineering students working on

vibration and machine design

the authors use a linear graph approach which contrasts with the bond graph approach or the no graph approach

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