

## ABOUT BOOK

The propeller shaft is one of the most important components of a vehicle. Torsion forces are frequently applied to it. Friction and bending stress are induced by the weights of the materials. Vibration during service is a common sign of drivetrain failure. This book gives a comprehensive review of the most recent cracks and crack identification techniques. Local flexibility is introduced by a crack in a structural part, which influences the structure's vibration responses. In this book, natural frequency is used to measure crack. This book would provide a method for crack detection at the first level using vibration techniques that is both accurate and efficient.

## ABOUT AUTHOR



Vishal Singh D. Rajput is an Assistant Professor at PCET's Nutan Maharashtra Institute of Engineering and Technology in Pune. He earned his bachelor's degree in Production Engineering from Nanded's Shri Guruji Gobind Singhji Institute of Engineering and Technology (SGSIET). As a consequence, he has been teaching. He received his postgraduate degree from Savitribai Phule Pune University. He has more than ten years of teaching experience. Strength of Material (SOM), Mechanical Vibration, CAD/CAM, and Finite Element Analysis are some of his favourite subjects to teach. He is a professional member of The Society of Automotive Engineers, India (SAEINDIA), Dhole Patil College of Engineering Pune honors him with the 'Best Teacher Award' in 2015.



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## Crack Detection Analysis in Mechanical Component By Application of Non-Destructive Methods

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