



Dynamics of Rotating Systems (Mechanical Engineering Series)

By Giancarlo Genta

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Provides an up-to-date review of rotor dynamics, dealing with basic topics as well as a number of specialized topics usually available only in journal articles

Unlike other books on rotordynamics, this treats the entire machine as a system, with the rotor as just one component

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Editorial Review

Review

From the reviews:

"This comprehensive book deals with the theory of dynamics of rotating systems. ... The author attempts to model the dynamic behaviour of all rotating bodies, including not only shafts and turbine motors but also rotating blades and flexible spinning spacecraft. ... Without hesitation, this book is recommended to researchers and engineers whose work involves modelling and analysis of rotating systems. The book is definitely a valuable text for graduate students studying rotor dynamics and for those pursuing their own novel approaches." (International Journal of Acoustics and Vibration, Vol. 10 (4), 2005)

From the Back Cover

Dynamics of Rotating Systems goes beyond what is usually referred to as rotordynamics. The aim is to deal with the dynamic behavior of systems having in common the feature of rotating. This definition includes systems like transmission shafts, turbine rotors and gyroscopes, which are studied by rotordynamics, but also systems such as rotating blades (i.e. helicopter rotors) or flexible spinning spacecraft. While rotordynamics deals usually only with the lateral behavior of rotors, here some mention is made also to torsional and axial vibration or to cases in which it is impossible to distinguish between them.

This book is structured in two parts: the first introduces classical or basic rotordynamics. The basic assumptions are linearity, steady state operation, and at least some degree of axial symmetry. The second part discusses advanced rotordynamics. More detailed models are covered for rotors departing from the classic configurations studied in rotordynamics. The contents of the second part are more research topics than consolidated applications.

Dynamics of Rotating Systems is the result of the author's almost thirty years of work in the field of rotordynamics. This includes research, teaching, writing computer codes and consulting. It is the outcome of an interdisciplinary research team led by the author, which operated, and still operates, in the Mechanics Department and in the Interdepartmental Mechatronics Laboratory of Politecnico di Torino.

About the author:

Giancarlo Genta is a professor in the Mechanics Department at Politecnico di Torino, in Turin, Italy. He is a corresponding member of the International Academy of Astronautics and the Academy of Sciences in Turin. He is the author of more than 250 scientific papers published on journals or presented to conferences, of several research books and of a popular science book on space exploration.

About the Author

Giancarlo Genta is a professor in the Mechanics Department at Politecnico di Torino, in Turin, Italy. He is the Director of the Italian THIRSTS Studies Center, and is also affiliated with the Commission for the exploration of the space interstellare of the International Academy of Astronautica and the Academy of Sciences in Turin.

Users Review

From reader reviews:

Ruben Martin:

Spent a free time and energy to be fun activity to try and do! A lot of people spent their down time with their family, or their particular friends. Usually they undertaking activity like watching television, gonna beach, or picnic from the park. They actually doing ditto every week. Do you feel it? Will you something different to fill your own personal free time/ holiday? Could be reading a book is usually option to fill your totally free time/ holiday. The first thing that you will ask may be what kinds of publication that you should read. If you want to consider look for book, may be the reserve untitled Dynamics of Rotating Systems (Mechanical Engineering Series) can be excellent book to read. May be it is usually best activity to you.

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Precisely why? Because this Dynamics of Rotating Systems (Mechanical Engineering Series) is an unordinary book that the inside of the guide waiting for you to snap this but latter it will distress you with the secret it inside. Reading this book adjacent to it was fantastic author who have write the book in such incredible way makes the content interior easier to understand, entertaining method but still convey the meaning fully. So , it is good for you for not hesitating having this any more or you going to regret it. This amazing book will give you a lot of benefits than the other book include such as help improving your skill and your critical thinking technique. So , still want to hesitate having that book? If I have been you I will go to the publication store hurriedly.

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