



MACHINERY VIBRATION AND ROTORDYNAMICS

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This book follows the first author's *Rotordynamics* in its practical approach and has been updated and extended with a few corrections that reflect particular interest and significance on bearings, seals, and computer programs. Dr. Fouad Zeidan and Dr. Brian Murphy are from two companies that design and manufacture bearings and seals. These products often form a complete rotor-bearing system. Dr. Murphy is the author of several computer programs for rotordynamics that are completely new. Chapter 1 describes the use of these programs by engineers for troubleshooting and a history of the most important developments since 1869.

The authors have noted (with interest) that the subject material of this book is being used in even though rotating machines are a part of mechanical engineering. Three or four chapters could be used as an elective course. These chapters could be assigned to the students, which would save a part of the chapter material. The late Dr. Murphy's work after graduation as reference material and test results for real machines would be of engineers assigned to troubleshooting for reliability, and having no other reference book can be the substitute for this book.

It is the author's hope that this book will contribute to the improvement of rotating machinery in the years to come.