

Advances in Engineering Monograph Series

Series Editor: Haym Benaroya

Department of Mechanical and Aerospace Engineering, Rutgers University

Series Purpose and Goals

This monograph series has as its primary focus the disciplines within Mechanical and Aerospace Engineering. These fields of scholarly work and design have become so broad that it is almost impossible to keep up with developments. There are very important developments in nanotechnology, MEMS, robotics, mechatronics, advanced materials for structural control and smart structures, just to mention a few. Additionally, more traditional but equally important activities exist in vibration and dynamics, thermal processing of materials, delamination of composites, continuum mechanics, and fluid-structure interaction.

Our goal is to publish monographs to be written in such a way that they can be essential to both the engineer/scientist as well as someone new to the subject. Most monographs, therefore, will begin with a concise literature review plus introductions to the relevant math.

In addition, we will on occasion, publish handbooks and edited volumes. These titles are expected to fill a broader need in the community where multidisciplinary frontiers are being crossed as problem areas become more complex.

Books Published

1. *Nonlinear Dynamics of Compliant Offshore Structures* - Patrick Bar-Avi and Haym Benaroya
1997. ISBN 90 265 1449 9
2. *Handbook of Vehicle-Road Interaction* - David Cebon
1999. ISBN 90 265 1554 5
3. *Nonlinear Random Vibration - Analytical Techniques and Applications* - Cho W.S. To
2000. ISBN 90 265 1637 1
4. *Virtual Testing of Mechanical Systems - Theories and Techniques* - Ole Ivar Sivertsen
2001. ISBN 90 265 1811 0
5. *Advances in Nonlinear Dynamics in China - Theory and Applications* - Wenhua Huang
2002. ISBN 90 265 1870 6
6. *Fundamentals of Rail Vehicle Dynamics - Guidance and Stability* - A.H. Wickens
2003. ISBN 90 265 1946 X

Information about the series and how to contribute can be obtained from:

Professor Haym Benaroya
Department of Mechanical and Aerospace Engineering
Rutgers, The State University of New Jersey
98 Brett Road
Piscataway, NJ 08854-8058
Tel: 732-445-4408
Fax: 732-445-3124
E-mail: benaroya@rci.rutgers.edu