



# **Handbook of Research for Mechanical Engineering - Two volume Set: Handbook of Research for Mechanical Engineering, Volume Two: Flow Control in Complex Systems**

*Kaveh Hariri Asli, Soltan Ali Ogli Aliyev*

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This handbook includes the computational and practical methods that were used for the prediction of mechanical systems failure related to flow control in complex systems. The methods and technologies discussed include a combination of physical, mechanical, and thermal techniques. This book develops a new method for the calculation of mathematical models by computer technology. The process of entering input for the calculation of mathematical models was simplified for the user through the use of mechanical systems. These methods have provided suitable ways for detecting, analyzing, and recording mechanical systems fault. The proposed methods allowed for any arbitrary combination of devices under the modern-day definition of flow control. A scale model and a prototype (real) system were used. This book presents the performances of computational method for system failure prediction by numerical analysis and nonlinear dynamic models. The various methods were developed to solve flow control problems.

The book includes the research of the authors on the development of optimal mathematical models. The authors used modern computer technology and various mathematical methods for analysis of nonlinear dynamic processes. The book includes a glossary of terms, case studies, list of abbreviations, and recent references. Teachers and students of mechanical engineering and the environmental sciences, as well as of civil, chemical, sanitary, and municipal sciences, will find much of direct use and general value in this book.

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