

Preface

The given collected articles have been organized as a result of joint academic panels of research workers from the Faculty of Mechanics and Mathematics of Lomonosov Moscow State University and Institute for Applied System Analysis of the National Technical University of Ukraine “Kyiv Polytechnic Institute,” devoted to applied problems of mathematics, mechanics, and engineering, which attracted the attention of researchers from leading scientific schools of Brazil, France, Germany, Poland, Russian Federation, Spain, Mexico, Ukraine, USA, and other countries. Modern technological applications require development and synthesis of fundamental and applied scientific areas, with a view to reducing the gap that may still exist between theoretical basis used for solving complicated technical problems and implementation of obtained innovations. To solve these problems mathematicians, mechanics, and engineers from wide research and scientific centers have been working together. Results of their joint efforts, including applied methods of modern algebra and analysis, fundamental and computational mechanics, nonautonomous and stochastic dynamical systems, and optimization, control and decision sciences for continuum mechanics problems, are partially presented here. In fact, serial publication of such collected papers to similar seminars is planned.

This is the sequel of an earlier volume.

The book is addressed to a wide circle of mathematical, mechanical, and engineering readers.

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Continuous and Distributed Systems II

Theory and Applications

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