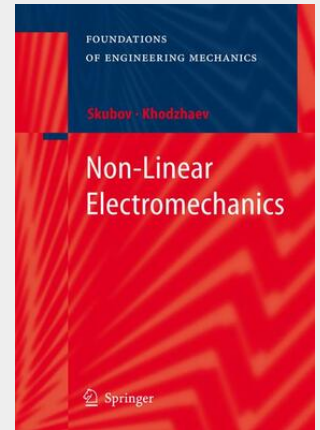


## Non-Linear Electromechanics

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Books like their authors have their destinies. This book for the most part could have been written earlier, but it happened to be released as late as the 21st century. It is based on the numerous fundamental studies of my teacher Kamil Sh. Khodzhaev. His disease prevented him from implementing his ideas in the form that he had been contemplating for years. It was me who tried to convey his concepts and ideas with the least possible distortions. This book contains a number of solutions worked out by Kamil Sh. Khodzhaev himself as well as problems solved by the authors jointly or separately. Kamil Sh. Khodzhaev founded St. Petersburg school of electromechanics, with the focus on mechanics as a part, however distinctive, of general analytical mechanics, having been inspired by the desire of our common Teacher Anatoly I. Lurie "to set order" in this significant branch of science. Khodzhaev's school has many followers and their work is an integral part of the book. Some original ideas and studies of our colleagues are provided with footnotes in the corresponding sections while Chapter 6 dealing with the motion of the charged particle in electromagnetic field was written in cooperation with another co-author Alexander G. Chirkov.

This is the first book in which problems of electromechanics are considered from the perspective of analytical mechanics. The book includes fundamental results in the theory of non-linear electromechanical systems and will be useful both for researchers, engineers, scholars and graduate students of electromechanical faculties of technical universities. It includes not only theoretical results but also various examples from many industrial applications. A sizeable part of the book is devoted to the general theory of synchronous machines and electro-magnetic exciters of oscillations. The material of the book can be included in courses covering the theory of non-linear oscillations, the theory of electrical machines and other electromechanical devices.



**160,49 €**

149,99 € (zzgl. MwSt.)

Lieferfrist: bis zu 10 Tage

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**Artikelnummer:** 9783540251392

**Medium:** Buch

**ISBN:** 978-3-540-25139-2

**Verlag:** Springer Berlin Heidelberg

**Erscheinungstermin:** 09.09.2008

**Sprache(n):** Englisch

**Auflage:** 2008

**Serie:** Foundations of Engineering Mechanics

**Produktform:** Gebunden

**Gewicht:** 787 g

**Seiten:** 399

**Format (B x H):** 160 x 241 mm

