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the authors discuss the definition of the terms used in electromechanical design as well as the relevant equations. the book also provides an overview of the field of electromechanical design. there are 7 chapters, which include 1-design of the free-rotor-type electromechanical machines; 2-formulation of electromechanical equations for rotating machines; 3-design of a permanent magnet dc brushless synchronous generator; 4-application of electromechanical design to the design of a (single phase) multi-level permanent magnet (mpm) dc motor; 5-design of an induction machine; 6-analysis of a permanent magnet generator and its rotor; 7-design of a multi-level permanent magnet (mpm) ac synchronous motor. the book was published in 1983, which was a time when arc welding was evolving into a new technology. however, the evolution of arc welding has been stifled due to the high cost of maintenance and high installation costs for the equipment. from the third edition of the book, the authors have paid special attention to the research and development on arc welding. the research is mainly focused on the improvement of the gas tungsten arc welding processes, the development of the flux-cored arc welding processes, and the improvement of the electrodes. the authors have paid special attention to the research on the plasma arc welding processes and the hybrid processes, and the applications in other areas, such as shipbuilding, aeronautics, and the nuclear industry. the content of the book is presented as a series of chapters, each presenting an engineering design solution for a specific application. the design solutions are presented in tabular form, including the physical and the mathematical design solutions. the book contains solutions for mechanical, electrical and thermal design problems, as well as the safety design of the equipment. a good amount of the book is devoted to principles, equations, and design tools. the book also gives the reader hands-on experience in designing solutions by using an actual engineering case.

## **Electromechanical Systems, Electric Machines, And Applied Mechatronics Lyshevski, Sergey Edward||**

this is a comprehensive book that provides the reader with the fundamental knowledge and technical skills required for designing and implementing electromechanical systems and devices.. with this book, engineers will become more proficient with the equipment used in electromechanical devices and systems. the book will also be an excellent resource for professors of electromechanical engineering and students of electromechanical engineering and applied mathematics. throughout this book, you will find worked examples and a complete matlab toolbox to perform the calculations. this book will be especially useful for those who are interested in electromechanical engineering, electrical or mechanical engineering, and applied mathematics. the examples and exercises are developed to provide a good understanding of the concepts covered in each chapter. the book also contains a matlab toolbox that can be downloaded from the book's companion website, [www.emsys.com](http://www.emsys.com). the field of electromechanical systems and devices has been growing rapidly over the past two decades. the number of published works dealing with these topics has increased dramatically. in addition, the number of undergraduate and graduate students in the field is on the rise. the need for textbooks that provide both an overview of the field and focus on its fundamentals is growing. electromechanical systems and devices is a comprehensive textbook that provides the reader with an overview of the field, a solid understanding of the fundamentals, and an appreciation for the basic design issues and implementation issues that drive electromechanical engineers. the book contains a wealth of worked examples and a complete matlab toolbox to perform the calculations. this book will be especially useful for those who are interested in electromechanical engineering, electrical or mechanical engineering, and applied mathematics. the examples and exercises are developed to provide a good understanding of the concepts covered in each chapter.

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