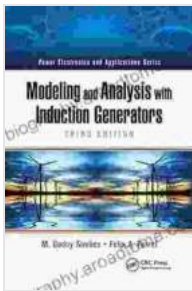


# Modeling and Analysis with Induction Generators: Power Electronics and Controls

This book provides a comprehensive treatment of the modeling and analysis of induction generators, with a focus on power electronics and controls. The book covers the theory and application of induction generators in renewable energy systems, electric vehicles, and industrial applications.



## Modeling and Analysis with Induction Generators (Power Electronics and Applications Series Book 13)

by M. Godoy Simões

★★★★☆ 4.6 out of 5

Language : English

File size : 56011 KB

Screen Reader : Supported

Print length : 466 pages



## Table of Contents

- Chapter 1:
- Chapter 2: Induction Generator Fundamentals
- Chapter 3: Power Electronics for Induction Generators
- Chapter 4: Induction Generator Control
- Chapter 5: Applications of Induction Generators

## **Chapter 1:**

This chapter provides an overview of induction generators, including their history, applications, and advantages. The chapter also discusses the different types of induction generators and their construction.

## **Chapter 2: Induction Generator Fundamentals**

This chapter covers the basic principles of induction generators, including their operation, equivalent circuits, and performance characteristics. The chapter also discusses the effects of saturation and losses on induction generator performance.

## **Chapter 3: Power Electronics for Induction Generators**

This chapter discusses the role of power electronics in induction generators, including the use of inverters, converters, and controllers. The chapter also covers the different types of power electronic circuits used in induction generators and their design considerations.

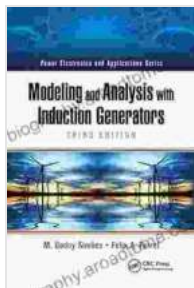
## **Chapter 4: Induction Generator Control**

This chapter covers the different methods of controlling induction generators, including voltage control, current control, and speed control. The chapter also discusses the different types of control systems used in induction generators and their design considerations.

## **Chapter 5: Applications of Induction Generators**

This chapter discusses the different applications of induction generators, including their use in renewable energy systems, electric vehicles, and industrial applications. The chapter also discusses the different design considerations for induction generators in these applications.

This book provides a comprehensive treatment of the modeling and analysis of induction generators, with a focus on power electronics and controls. The book is a valuable resource for researchers, engineers, and students in the field of electrical engineering.



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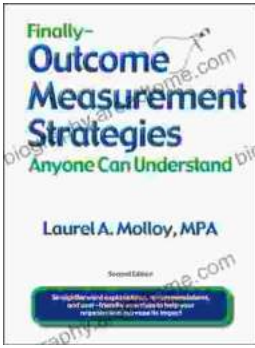
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