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*A Study of the Transient Response of an
Induction Motor* Springer

Induction motors are the most important workhorses in industry. They are mostly used as constant-speed drives when fed from a voltage source of fixed frequency. Advent of advanced power electronic converters and powerful digital signal processors, however, has made possible the development of high performance, adjustable speed AC motor drives. This book aims to explore new areas of induction motor control based on artificial

intelligence (AI) techniques in order to make the controller less sensitive to parameter changes. Selected AI techniques are applied for different induction motor control strategies. The book presents a practical computer simulation model of the induction motor that could be used for studying various induction motor drive operations. The control strategies explored include expert-system-based acceleration control, hybrid-fuzzy/PI two-stage control, neural-network-based direct self control, and genetic algorithm based extended Kalman filter for rotor speed estimation. There are also chapters on neural-network-based parameter estimation, genetic-algorithm-based optimized random PWM strategy,

and experimental investigations. A chapter is provided as a primer for readers to get started with simulation studies on various AI techniques. Presents major artificial intelligence techniques to induction motor drives Uses a practical simulation approach to get interested readers started on drive development Authored by experienced scientists with over 20 years of experience in the field Provides numerous examples and the latest research results Simulation programs available from the book's Companion Website This book will be invaluable to graduate students and research engineers who specialize in electric motor drives, electric vehicles, and electric ship propulsion. Graduate students in

intelligent control, applied electric motion, and energy, as well as engineers in industrial electronics, automation, and electrical transportation, will also find this book helpful. Simulation materials available for download at www.wiley.com/go/chanmotor

A Transient Analysis and Computer Study of Single-phase Induction Motor CRC Press
This report is divided into three chapters. Chapter 1 is directed primarily to the reader interested in the less detailed aspects of productivity in the industry. Chapter 2 presents detailed case studies of each plant and will be of value to the plant superintendent or the production engineer. Chapter 3 is a brief discussion of workers' earnings, and the benefits to the worker due to increased productivity and unionization, where applicable. The appendixes contain case studies of labor adjustments to technological changes, industry background information, and a copy of the questionnaire used. A glossary of trade and technical terms completes the report.

The Single Phase Induction Motor A Study of Induction Motor with Unbalanced Rotor Impedances A Study of Starting Current in

a Three-phase Induction Motor A Study of the Induction Motor A Study of the Field of a Three Phase Induction Motor Study of a Three Phase Induction Motor A Study of the Automatic Start Induction Motor A Study of the Modern Induction Motor The Study of Induction Motor Plugging Control Circuits The Study of Induction Motor Performance Under Unbalanced Line Voltages A Study of Induction Motor Efficiency Based on ITS Power Capaciti A Study of Saturated Induction Motor Starting Performance A Study of the Stanley-Kelly-Chesney Two-Phase Induction Motor Study of a repulsion-start induction motor A Study of a Five Horsepower Single Phase Induction Motor A Study of the Concatenation of Induction Motors A Study of the Performance of an Induction Motor Under Unbalanced Voltage Conditions A Study of the Rotating Fields of the Single-phase Induction Motor Case Study Data on Productivity and Factory Performance 5-horsepower, Induction Motors This report is divided into three chapters. Chapter 1 is directed primarily to the reader interested in the less detailed aspects of productivity in the industry. Chapter 2 presents detailed case studies

of each plant and will be of value to the plant superintendent or the production engineer. Chapter 3 is a brief discussion of workers' earnings, and the benefits to the worker due to increased productivity and unionization, where applicable. The appendixes contain case studies of labor adjustments to technological changes, industry background information, and a copy of the questionnaire used. A glossary of trade and technical terms completes the report. Applied Intelligent Control of Induction Motor Drives

The book covers various issues related to machinery condition monitoring, signal processing and conditioning, instrumentation and measurements, faults for induction motors failures, new trends in condition monitoring, and the fault identification process using motor currents electrical signature analysis. It aims to present a new non-invasive and non-intrusive condition monitoring system, which has the capability to detect various defects in induction motor at incipient stages within an arbitrary noise conditions. The performance of the developed system has been analyzed theoretically and experimentally under various loading

conditions of the motor. Covers current and new approaches applied to fault diagnosis and condition monitoring. Integrates concepts and practical implementation of electrical signature analysis. Utilizes LabVIEW tool for condition monitoring problems. Incorporates real-world case studies. Paves way a technology potentially for prescriptive maintenance via IIoT.

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 The Study of Induction Motor Performance Under Unbalanced Line

Voltages
 A Study of Induction Motor Efficiency Based on ITS Power Capacitance
 Study of Saturated Induction Motor Starting Performance
 A Study of the Stanley-Kelly-Chesney Two-Phase Induction Motor
 Study of a repulsion-start induction motor
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 A Study of the Concatenation of Induction Motors
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 A Study of the Rotating Fields of the Single-phase Induction Motor
 Case Study Data on Productivity and Factory Performance
 5-horsepower, Induction Motors

Approach through Current Signature Analysis

This book covers the diagnosis and assessment of the various faults which can occur in a three phase induction motor, namely rotor broken-bar faults, rotor-mass unbalance faults, stator winding faults, single phasing faults and crawling. Following a brief introduction, the second chapter describes the construction and operation of an induction motor, then reviews the range of known motor faults, some existing techniques for fault

analysis, and some useful signal processing techniques. It includes an extensive literature survey to establish the research trends in induction motor fault analysis. Chapters three to seven describe the assessment of each of the five primary fault types. In the third chapter the rotor broken-bar fault is discussed and then two methods of diagnosis are described; (i) diagnosis of the fault through Radar analysis of stator current Concordia and (ii) diagnosis through envelope analysis of motor startup current using Hilbert and Wavelet Transforms. In chapter four, rotor-mass unbalance faults are assessed, and diagnosis of both transient and steady state stator current has been analyzed using different techniques. If both rotor broken-bar and rotor-mass unbalance faults occur simultaneously then for identification an algorithm is provided in this chapter. Chapter five considers stator winding faults and five different analysis techniques, chapter six covers diagnosis of single phasing faults, and chapter seven describes crawling and its diagnosis. Finally, chapter eight focuses on fault assessment, and presents a summary of the book together with a discussion of

prospects for future research on fault diagnosis.

A Study of Induction Motor with Unbalanced Rotor Impedances

The Study of Induction Motor Performance Under Unbalanced Line Voltages

The Oberretl Model

A Study of the Automatic Start Induction Motor

A Study of the Performance of Polyphase

Induction Motor by the Method of Symmetrical Components

A Study of a Five Horse-power Single Phase Induction Motor

An Analytical and Oscillographic Study of the Secondary Currents ...

A Study of the Rotating Fields of the Single-phase Induction Motor

Report on the High Speed Ground

Transportation Act

Prepared Especially for Home Study

A Study of the Modern Induction Motor

A Study of the Theory and Characteristics of the Repulsion Induction Motor

The Induction Motor and Its Engineering Capabilities

Case Study Data on Productivity and Factory Performance