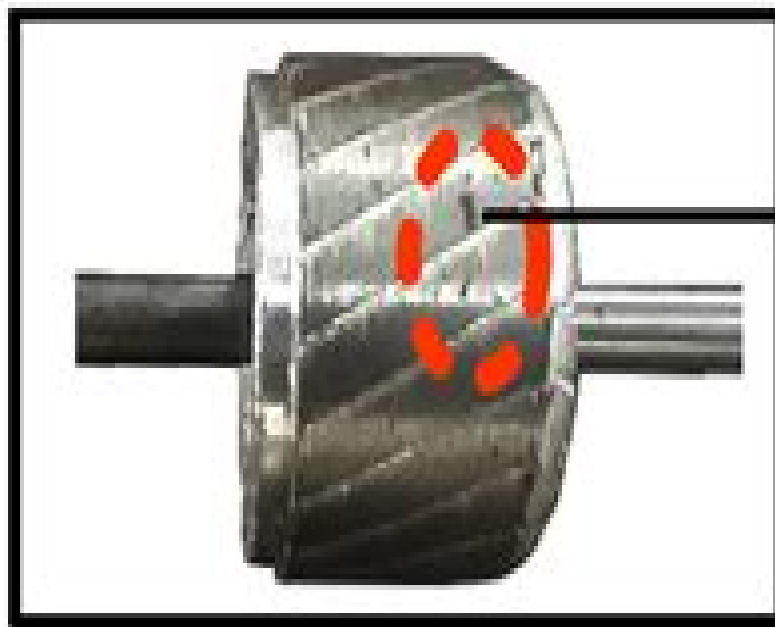




(a) Healthy Motor



(b) Faulted Rotor



(c) Faulted bearing

Fault Identification Of Induction Motors

Raúl Gregor



Fault Identification Of Induction Motors:

Condition Monitoring and Faults Diagnosis of Induction Motors Nordin Saad, Muhammad Irfan, Rosdiazli Ibrahim, 2018-07-11 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

Induction Motor Fault Diagnosis Subrata Karmakar, Surajit Chattopadhyay, Madhuchhanda Mitra, Samarjit Sengupta, 2016-04-04 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

Incipient Detection of Faults in Three-Phase Induction Motors Using Stator Current Spatial Angular Vector Analysis R.A Gupta, A. K.

Wadhvani, S.R Kapoor, 2009 The detection of motor faults at their incipient stage is gaining importance as it leads to increased reliability and reduced machine downtime The stator current analysis has caught the attention of researchers as a mature and simple technique for induction motor fault detection and identification In this paper angular space vector analysis of the induction motor stator current for fault identification has been investigated The tracking of spatial angular

vector profile of stator current Park's vector is used to identify the degrading health condition of induction motors. Any significant deviation in the shape of spatial angular vector is an indicator of the onset of irregularities, mechanical or electrical in the induction motor. Three major types of induction motor faults: bearing fault, broken rotor bar fault, and unbalanced supply faults have been experimentally investigated. The experimentation has been performed on a 3.15 kW, 4 poles, 1440 RPM ABB squirrel cage motor. The motor setup was mechanically loaded to operate at various loads. The TMS 320F420 DSP based dSPACE DS 1104 control card has been used to carry out the experimentation. The softwares used include MATLAB ver 2006 and dSPACE control desk.

Fault Diagnosis of Induction Motors Jawad Faiz, Vahid Ghorbanian, Gojko Joksimović, 2017-08-29

This book is a comprehensive structural approach to fault diagnosis strategy. The different fault types, signal processing techniques, and loss characterisation are addressed in the book. This is essential reading for work with induction motors for transportation and energy.

Induction Motors Raúl Gregor, 2015-11-18

AC motors play a major role in modern industrial applications. Squirrel cage induction motors (SCIMs) are probably the most frequently used when compared to other AC motors because of their low cost, ruggedness, and low maintenance. The material presented in this book is organized into four sections covering the applications and structural properties of induction motors, IMs fault detection and diagnostics, control strategies, and the more recently developed topology based on the multiphase more than three phases induction motors. This material should be of specific interest to engineers and researchers who are engaged in the modeling, design, and implementation of control algorithms applied to induction motors and more generally to readers broadly interested in nonlinear control, health condition monitoring, and fault diagnosis.

Fault Detection Wei Zhang, 2010-03-01

In this book, a number of innovative fault diagnosis algorithms in recent years are introduced. These methods can detect failures of various types of system effectively and with a relatively high significance.

Fault Diagnosis and Detection

Mustafa Demetgul, Muhammet Ünal, 2017-05-31

Mass production companies have become obliged to reduce their production costs and sell more products with lower profit margins in order to survive in competitive market conditions. The complexity and automation level of machinery are continuously growing. This development calls for some of the most critical issues that are reliability and dependability of automatic systems. In the future, machines will be monitored remotely and computer-aided techniques will be employed to detect faults in the future and also there will be unmanned factories where machines and systems communicate to each other, detect their own faults, and can remotely intercept their faults. The pioneer studies of such systems are fault diagnosis studies. Thus we hope that this book will contribute to the literature in this regard.

Advanced Condition Monitoring and Fault Diagnosis of Electric Machines Irfan, Muhammad, 2018-09-14

The reliability of induction motors is a major requirement in many industrial applications. It is especially important where an unexpected breakdown might result in the interruption of critical services such as military operations, transportation, aviation, and medical applications. *Advanced Condition Monitoring and Fault Diagnosis of Electric Machines* is a collection of

innovative research on various issues related to machinery condition monitoring signal processing and conditioning instrumentation and measurements and new trends in condition monitoring It also pays special attention to the fault identification process While highlighting topics including spectral analysis electrical engineering and bearing faults this book is an ideal reference source for electrical engineers mechanical engineers researchers and graduate level students seeking current research on various methods of maintaining machinery

Soft Computing in Condition Monitoring and Diagnostics of Electrical and Mechanical Systems Hasmat Malik, Atif Iqbal, Amit Kumar Yadav, 2020-01-17 This book addresses a range of complex issues associated with condition monitoring CM fault diagnosis and detection FDD in smart buildings wide area monitoring WAM wind energy conversion systems WECSs photovoltaic PV systems structures electrical systems mechanical systems smart grids etc The book's goal is to develop and combine all advanced nonintrusive CMFD approaches on a common platform To do so it explores the main components of various systems used for CMFD purposes The content is divided into three main parts the first of which provides a brief introduction before focusing on the state of the art and major research gaps in the area of CMFD The second part covers the step by step implementation of novel soft computing applications in CMFD for electrical and mechanical systems In the third and final part the simulation codes for each chapter are included in an extensive appendix to support newcomers to the field

Fault diagnosis of induction motor fed by frequency converter. The signal signature analysis technique Hussain Mahdi, 2016-08-12 Thesis M A from the year 2013 in the subject Electrotechnology Warsaw University of Technology Electrical Engineering language English abstract 3 Phase induction motors are widely used as a source of mechanical power for effective operation and low costs The abnormalities have to be detected in advance to avoid the motor breakdown and the cost associated restraint of plant production This work discusses current and flux leakage spectral analysis techniques for the diagnosis of broken rotor bars and shortcircuited turns in induction motor fed from different AC sources In spite of recent development of various types of models toward motor faults diagnosis and examining different problems associated with 3 phase induction motors the signal spectral analysis is considered as one of most important approaches Most of the models from simple equivalent circuit to more complex d q and a b c models and lastly developed hybrid models are provided for the integration of different forms of current and or voltage unbalance Generally techniques that relate to asymmetry identify asymmetrical motor faults Frequency converters in many applications feed induction motors Such applications which play a major role in industry are growing at a high rate allow to use 3 phase induction motor as variable speed applications This paper proposes application of spectral signature analysis for the detection and diagnosis of abnormal electrical and mechanical conditions which indicates chosen faults in induction motor fed by frequency converter

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