

# Root Cause Analysis

A SYSTEMATIC ANALYSIS TO UNCOVER THE FUNDAMENTAL OR DEEP-SEATED CAUSES OF AN INCIDENT, FAILURE, OR PROBLEM

STEP 1



Define the problem (or areas of improvement)

STEP 2



Assemble as much data and inputs as possible.

STEP 3



Locate the 'root' causes

STEP 4



Find 'Corrective' and 'Preventive' solutions

STEP 5



Create actionable strategies to implement the solution

STEP 6



Monitor the solution and confirm if it works

# Root Cause Failure Analysis Easa

**Michael Rajnik**



## **Root Cause Failure Analysis Easa:**

*Current Signature Analysis for Condition Monitoring of Cage Induction Motors* William T. Thomson, Ian Culbert, 2016-12-12 Provides coverage of Motor Current Signature Analysis MCSA for cage induction motors This book is primarily for industrial engineers It has 13 chapters and contains a unique data base of 50 industrial case histories on the application of MCSA to diagnose broken rotor bars or unacceptable levels of airgap eccentricity in cage induction motors with ratings from 127 kW 170 H P up to 10 160 kW 13 620 H P There are also unsuccessful case histories which is another unique feature of the book The case studies also illustrate the effects of mechanical load dynamics downstream of the motor on the interpretation of current signatures A number of cases are presented where abnormal operation of the driven load was diagnosed Chapter 13 presents a critical appraisal of MCSA including successes failures and lessons learned via industrial case histories The case histories are presented in a step by step format with predictions and outcomes supported by current spectra and photographic evidence to confirm a correct or incorrect diagnosis The case histories are presented in detail so readers fully understand the diagnosis The authors have 108 years of combined experience in the installation maintenance repair design manufacture operation and condition monitoring of SCIMs There are 10 questions at the end of chapters 1 to 12 and answers can be obtained via the publisher *Current Signature Analysis for Condition Monitoring of Cage Induction Motors* serves as a reference for professional engineers head electricians and technicians working with induction motors To obtain the solutions manual for this book please send an email to [pressbooks.ieee.org](mailto:pressbooks.ieee.org) William T Thomson is Director and Consultant with EM Diagnostics Ltd in Scotland Prof Thomson received a BSc Hons in Electrical Engineering in 1973 and an MSc in 1977 from the University of Strathclyde He has published 72 papers on condition monitoring of induction motors in a variety of engineering journals such as IEEE Transactions USA IEE Proceedings UK and also at numerous International IEEE and IEE conferences He is a senior member of the IEEE a fellow of the IEE IET in the UK and a Chartered Professional Engineer registered in the UK Ian Culbert was a Rotating Machines Specialist at Iris Power Qualitrol since April 2002 until his very untimely death on 8th September 2015 At this company he provided consulting services to customers assisted in product development trained sales and field service staff and reviewed stator winding partial discharge reports He has co authored two books on electrical machine insulation design evaluation aging testing and repair and was principal author of a number of Electric Power Research Institute reports on motor repair Ian was a Registered Professional Engineer in the Province of Ontario Canada and a Senior Member of IEEE

**Model-Based Safety and Assessment** Christel Seguin, Marc Zeller, Tatiana Prosvirnova, 2022-09-08 This book constitutes the proceedings of the 8th International Symposium on Model Based Safety and Assessment IMBSA 2022 held in Munich Germany in September 2022 The 15 revised full papers and 3 short papers presented were carefully reviewed and selected from 27 initial submissions The papers focus on model based and automated ways of assessing safety and other attributes of dependability of complex systems They are organized in

topical sections on safety analysis automation MBSA practices causal models and failure modeling strategies designing mitigations of faults and attacks data based safety analysis dynamic risk assessment *Power Transmission Design*, 1997 *Machine Design*, 2003 The Standard of Knowledge for the Aviation, Space & Defense Industry Quality Practitioner: The AS&D Quality Body of Knowledge (BoK) Version 1 Michael Dreikorn, 2012-04-02 This first of its kind process based body of knowledge description provides the process by process task by task analysis of the Quality processes in the AS D industry With over 400 pages of text and tables organizations and professionals are provided with the standard of quality professionalism Federal Register, 2013-06 **Investigating Transport Accidents** Dimitrios Ziakkas, Debra Henneberry, 2025-11-07 The transportation industry faces unprecedented challenges as systems grow increasingly complex This book introduces an integrated framework for transport accident investigations by combining traditional human performance analysis with advanced artificial intelligence capabilities Moving beyond simplistic cause and effect models the authors cover human factors automation hardware components contextual variables and organizational elements that collectively determine safety outcomes in complex socio technical environments Building upon established methodologies including HFACS STAMP and AcciMap this title analyzes AI enabled approaches including digital twins weak signal detection pattern recognition and data fusion platforms Each chapter delivers to the point practical insights into dynamic modeling of systemic interactions and enhanced detection of failure precursors The innovative MAHCO model combined with AI analytics supports transparent decision making and institutional learning while creating intelligent safety ecosystems that transform how we understand and prevent accidents in transportation systems Readers will develop an effective introduction to these systems and their capabilities thus honing their foundational knowledge Investigating Transport Accidents Human Performance and Intelligent Systems is for engineers policy makers researchers and students studying for or already working in transportation safety It will also appeal to pilots controllers maintainers and trainers in the aerospace industry *Yoga Therapy Foundations, Tools, and Practice* Laurie Hyland Robertson, Diane Finlayson, 2021-06-21 Providing essential support to schools and universities that offer yoga therapy training programs this comprehensive edited textbook develops robust curricula enabling them to prepare yoga therapists to integrate into healthcare settings safely and effectively The book includes a large and international list of contributors from diverse lineages and backgrounds such as Matthew Taylor Gail Parker and Steffany Moonaz and is the first resource on yoga therapy that aligns with the educational competencies of the International Association of Yoga Therapists IAYT It covers yoga foundations philosophical background ayurveda tantra biomedical and psychological foundations yoga therapy tools and therapeutic skills yogic and biopsychosocial spiritual assessments and professional practices As the field of yoga therapy continues to root and grow this book is essential for both new yoga therapy practitioners and for schools developing training programs **Root Cause Failure Analysis** R. Keith Mobley, 1999 **How to Organize and Run a Failure Investigation** Daniel P. Dennies, 2005 Learning the proper steps for

organizing a failure investigation ensures success Failure investigations cross company functional boundaries and are an integral component of any design or manufacturing business operation Well organized and professionally conducted investigations are essential for solving manufacturing problems and assisting in redesigns This book outlines a proven systematic approach to failure investigation It explains the relationship between various failure sources corrosion for example and the organization and conduct of the investigation It provides a learning platform for engineers from all disciplines materials design manufacturing quality and management The examples in this book focus on the definition of and requirements for a professionally performed failure analysis of a physical object or structure However many of the concepts have much greater utility than for investigating the failure of physical objects For example the book provides guidance in areas such as learning how to define objectives negotiating the scope of investigation examining the physical evidence and applying general problem solving techniques

**Root Cause Failure Analysis**, 2000 **Troubleshooting and Root Cause Failure Analysis** Lanthier JR Paul (author), 1901 **Root Cause Analysis** Robert J. Latino, Kenneth C. Latino, Mark A. Latino, 2011-06-17 What is RCA It seems like such an easy question to answer yet from novices to veterans and practitioners to providers no one seems to have come to agreement or consensus on an acceptable definition for the industry Now in its fourth edition **Root Cause Analysis Improving Performance for Bottom Line Results** discusses why it is so hard to get such consensus and why various providers are reluctant for that to happen See what's new in the Fourth Edition **Human Error Reduction Techniques HERT** new chapter **Failure Scene Investigation FSI Disciplined Evidence Gathering** Categorical versus Cause and Effect RCA Tools Analysis Tools Review The Germination of a Failure Constructing a Logic Tree Introduction of PROACT On Demand SM The Advantages of Software as a Service SaaS The Pros and Cons of RCA Templates Three New Client Case Histories The authors discuss evidence collection and strategy failure scene investigation techniques the human element and the contribution of human performance and human factors to poor decision making They clarify definitions that can be considered ambiguous and underscore the distinctions between applying PROACT manually using a paper based system versus using an automated software tool Written by practitioners for practitioners the book outlines an entire RCA system which involves a cultural paradigm change about how failure is perceived and acted upon in an organization The authors trademark down to earth style provides a step by step action plan for how to construct and implement a root cause analysis system that can be applied to any industry Read **MRI Safety 10 Years Later** co authored by Robert Latino **Root Cause Analysis** Mark A. Latino, Robert J. Latino, Kenneth C. Latino, 2019-06-26 This book comprehensively outlines what a holistic and effective Root Cause Analysis RCA system looks like From the designing of the support infrastructure to the measuring of effectiveness on the bottom line this book provides the blueprint for making it happen While traditionally RCA is viewed as a reactive tool the authors will show how it can be applied proactively to prevent failures from occurring in the first place RCA is a key element of any successful Reliability Engineering initiative Such initiatives are comprised of

equipment process and human reliability foundations Human reliability is critical to the success of a true RCA approach This book explores the anatomy of a failure undesirable outcome as well as a potential failure high risks Virtually all failures are triggered by errors of omission or commission by human beings The methodologies described in this book are applicable to any industry because the focus is on the human being s ability to think through why things go wrong not on the industry or the nature of the failure This book correlates reliability to safety as well as human performance improvement efforts The author has provided a healthy balance between theory and practical application wrapping up with case studies demonstrating bottom line results Features Outlines in detail every aspect of an effective RCA system Displays appreciation for the role of understanding the physics of a failure as well as the human and system s contribution Demonstrates the role of RCA in a comprehensive Asset Performance Management APM system Explores the correlation between Reliability Engineering and Safety Integrates the concepts of Human Performance Improvement Learning Teams and Human Error Reduction approaches into RCA

**Systems Failure Analysis** Joseph Berk,2009-01-01 *Root Cause Failure Analysis* Trinath Sahoo,2021-05-06 Root Cause Failure Analysis Provides the knowledge and failure analysis skills necessary for preventing and investigating process equipment failures Process equipment and piping systems are essential for plant availability and performance Regularly exposed to hazardous service conditions and damage mechanisms these critical plant assets can result in major failures if not effectively monitored and assessed potentially causing serious injuries and significant business losses When used proactively Root Cause Failure Analysis RCFA helps reliability engineers inspect the process equipment and piping system before any abnormal conditions occur RCFA is equally important after a failure happens it determines the impact of a failure helps control the resultant damage and identifies the steps for preventing future problems Root Cause Failure Analysis A Guide to Improve Plant Reliability offers readers clear understanding of degradation mechanisms of process equipment and the concepts needed to perform industrial RCFA investigations This comprehensive resource describes the methodology of RCFA and provides multiple techniques and industry practices for identifying predicting and evaluating equipment failures Divided into two parts the text first introduces Root Cause Analysis explains the failure analysis process and discusses the management of both human and latent error The second part focuses on failure analysis of various components such as bolted joints mechanical seals steam traps gearboxes bearings couplings pumps and compressors This authoritative volume Illustrates how failures are associated with part integrity a complete system or the execution of an engineering process Describes how proper design operation and maintenance of the equipment help to enhance their reliability Covers analysis techniques and industry practices including 5 Why RCFA fault tree analysis Pareto charts and Ishikawa diagrams Features a detailed case study of process plant machinery and a chapter on proactive measures for avoiding failures Bridging the gap between engineering education and practical application Root Cause Failure Analysis A Guide to Improve Plant Reliability is an important reference and guide for industrial professionals including

process plant engineers planning managers operation and maintenance engineers process designers chemical engineers and instrument engineers It is also a valuable text for researchers instructors and students in relevant areas of engineering and science Failure Analysis of Engineering Structures V. Ramachandran,2005 Printbegr nsninger Der kan printes 10 sider ad gangen og max 40 sider pr session **Investigating equipment failures through root cause failure analysis** Rolly Angeles,2021 *Science Citation Index* ,1992 Vols for 1964 have guides and journal lists *Root Cause Analysis Made Simple* Susan Lubell,Ricky Smith,2015-12-01

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