

Apollo Root Cause Analysis

It is about power, about who has it and who doesn't, and about how those differentials of power can be challenged and changed. A new way of thinking about data science and data ethics that is informed by the ideas of intersectional feminism. The narratives around big data and data science are overwhelmingly white, male, and techno-heroic. They explain how, for example, an understanding of emotion can expand our ideas about effective data visualization, and how the concept of invisible labor can expose the significant human efforts required by our automated systems. And they show why the data never, ever "speak for themselves. In *Data Feminism*, Catherine D'Ignazio and Lauren Klein present a new way of thinking about data science and data ethics—one that is informed by intersectional feminist thought. Illustrating data feminism in action, D'Ignazio and Klein show how challenges to the male/female binary can help challenge other hierarchical (and empirically wrong) classification systems. " *Data Feminism* offers strategies for data scientists seeking to learn how feminism can help them work toward justice, and for feminists who want to focus their efforts on the growing field of data science. Today, data science is a form of power. Data science for whom. But it has also been used to discriminate, police, and surveil. It has been used to expose injustice, improve health outcomes, and topple governments. This potential for good, on the one hand, and harm, on the other, makes it essential to ask: Data science by whom. But *Data Feminism* is about much more than gender. Data science with whose interests in mind

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This best-seller can help anyone whose role is to try to find specific causes for failures. This increases our ability to see what is truly significant and to better identify errors in our thinking. In the sections on finding root causes, this second edition now includes: more examples on the use of multi-vari charts; how thought experiments can help guide data interpretation; how to enhance the value of the data collection process; cautions for analyzing data; and what to do if one can't find the causes. It does this using figures, diagrams, and tools useful for helping to make our thinking visible. In addition, the appendices have been revised to include: an expanded breakdown of the 7 M's, which includes more than 50 specific possible causes; forms for tracking causes and solutions, which can help maintain alignment of actions; techniques for how to enhance the interview process; and example responses to problem situations that the reader can analyze for appropriateness. In its guidance on solution identification, biomimicry and TRIZ have been added as potential solution identification techniques. It provides detailed steps for solving problems, focusing more heavily on the analytical process involved in finding the actual causes of problems

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Arguing that traditional models of causality are inadequate, Leveson presents a new, extended model of causation (Systems-Theoretic Accident Model and Processes, or STAMP), then shows how the new model can be used to create techniques for system safety engineering, including accident analysis, hazard analysis, system design, safety in operations, and management of safety-critical systems. S. Revisiting and updating ideas pioneered by 1950s aerospace engineers in their System Safety concept, and testing her new model extensively on real-world examples, Leveson has created a new approach to safety that is more effective, less expensive, and easier to use than current techniques. A new approach to safety, based on systems thinking, that is more effective, less costly, and easier to use than current techniques. Leveson's approach is relevant even beyond safety engineering, offering techniques for "reengineering" any large sociotechnical system to improve safety and manage risk. S. Navy SUBSAFE program; and the

bacterial contamination of a public water supply in a Canadian town. She applies the new techniques to real-world events including the friendly-fire loss of a U. Blackhawk helicopter in the first Gulf War; the Vioxx recall; the U. Engineering has experienced a technological revolution, but the basic engineering techniques applied in safety and reliability engineering, created in a simpler, analog world, have changed very little over the years. In this groundbreaking book, Nancy Leveson proposes a new approach to safety—more suited to today's complex, sociotechnical, software-intensive world—based on modern systems thinking and systems theory 443118583e

Available in six languages, the RealityCharting software easily supports global operations and should be used to document the causes of your successes. The RealityCharting process and software easily facilitates creating a common reality from the input of all stakeholders and thus minimizes the normal conflict and power politics found in conventional root cause analysis processes. What took days in a classroom can now be learned in a matter of hours. In this companion book to the RealityCharting software, you will not only discover a simple process that defines the structure of causation, you will find links to online interactive exercises and training that help you better understand the process. RealityCharting is a new way of thinking that goes far beyond the traditional root cause analysis problem-solving processes. It provides structure to each stakeholder's reality, thus creating a common reality that all can buy into 443118583e

Learning the proper steps for organizing a failure investigation ensures success. It provides a learning platform for engineers from all disciplines: materials, design, manufacturing, quality, and management. 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. 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. The examples in this book focus on the definition of and requirements for a professionally performed failure analysis of a physical object or structure. It explains the relationship between various failure sources (corrosion, for example) and the organization and conduct of the investigation. This book outlines a proven systematic approach to failure investigation. However, many of the concepts have much greater utility than for investigating the failure of physical objects 443118583e

“An in-depth account of the events and personal actions which led to a great tragedy in the history of America’s space program. One by one, she unravels the conclusions of the Rogers Commission. ” —James D. ” —The New York Times “A landmark study. Why did NASA managers, who not only had all the information prior to the launch but also were warned against it, decide to proceed. Smith, former Solid Rocket Booster Chief, NASA, Marshall Space Flight Center When the Space Shuttle Challenger exploded on January 28, 1986, millions of Americans became bound together in a single, historic moment. ” —Scientific American. In a new preface, Vaughan reveals the ramifications for this book and for her when a similar decision-making process brought down NASA’s Space Shuttle Columbia in 2003. “Vaughn finds the traditional explanation of the [Challenger] accident to be profoundly unsatisfactory. The cumulative force of her argument and evidence is compelling. Many still vividly remember exactly where they were and what they were doing when they heard about the tragedy. She reveals how and why NASA insiders, when repeatedly faced with evidence that something was wrong, normalized the deviance so that it became acceptable to them. In retelling how the decision unfolded through the eyes of the managers and the engineers, Vaughan uncovers an incremental descent into poor judgment, supported by a culture of high-risk technology. Diane Vaughan recreates the steps leading up to that fateful decision, contradicting

conventional interpretations to prove that what occurred at NASA was not skullduggery or misconduct but a disastrous mistake. ” —Atlantic “Vaughn gives us a rare view into the working level realities of NASA 443118583e

Provides information essential to industrial troubleshooting investigations Describes the methods of root cause failure analysis, a hot topic in maintenance engineering Includes detailed equipment-design guidelines. PLANT ENGINEERING fills a unique information need for the men and women who operate and maintain industrial plants. It also includes detailed equipment design and troubleshooting guidelines, which are needed to perform RCFA on machinery found in most production facilities. This is the latest book in a new series published by Butterworth-Heinemann in association with PLANT ENGINEERING magazine. Root Cause Failure Analysis provides the concepts needed to effectively perform industrial troubleshooting investigations. It bridges the information gap between engineering education and practical application. As technology advances at increasingly faster rates, this information service is becoming more and more important. Since its first issue in 1947, PLANT ENGINEERING has stood as the leading problem-solving information source for America's industrial plant engineers, and this book series will effectively contribute to that resource and reputation. It describes the methodology to perform Root Cause Failure Analysis (RCFA), one of the hottest topics currently in maintenance engineering 443118583e

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. 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. 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 OnDemandSM 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. What is RCA. 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. Read MRI Safety 10 Years Later, co-authored by Robert Latino. 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. 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 443118583e

National Book Award Finalist: “This man's ideas may be the most influential, not to say controversial, of the second half of the twentieth century. The implications of this revolutionary scientific paradigm extend into virtually every aspect of our psychology, our history and culture, our religion—and indeed our future. speculates that until late in the twentieth millennium BC men had no consciousness but were automatically obeying the voices of the gods, we are astounded but compelled to follow this remarkable thesis. ”—John Updike, The New Yorker “He is as startling as Freud was in The Interpretation of Dreams, and Jaynes is equally as adept at forcing a new view of known human behavior. ”—The New York Times “When Julian Jaynes. ”—Columbus Dispatch At the heart of this classic, seminal book is Julian Jaynes's still-controversial thesis that human consciousness did not begin far back in animal evolution but instead is a learned process that came about only three thousand years ago and is still developing. Its prose is always

lucid and often lyrical...he unfolds his case with the utmost intellectual rigor. "Don't be put off by the academic title of Julian Jaynes's *The Origin of Consciousness in the Breakdown of the Bicameral Mind*. "—*American Journal of Psychiatry* 443118583e

In this expanded 600+ page edition, Dr. Cohen brings together some 30 experts from pharmacy, medicine, nursing, and risk management to provide the most current thinking about the causes of medication errors and strategies to prevent them 443118583e

Gano to be used as companion to RealityCharting(r) software in teaching the Apollo Method of root cause analysis. MRC-210A4N is a training manual developed by Mr 443118583e

Such problems exist within a broad range of scope, persistence, and severity across different industries. The purpose of this pocket guide is to provide you with easily accessible knowledge about the art of problem solving, with a specific focus on identifying and eliminating root causes of problems. The content in this little pocket guide can contribute to disseminating this skill a little further in the world. All organizations experience unintended variation and its consequences. Some problems cause minor nuisances, others leads to loss of customers or money, others yet can be a matter of life and death. Root cause analysis is a skill that absolutely everybody should master, irrespective of which sector you work in, what educational background you have, and which position in the organization you hold 443118583e

The only work to date to collect data gathered during the American and Soviet missions in an accessible and complete reference of current scientific and technical information about the Moon 443118583e

Don't jump from problem to solution without first investigating root causes. It is clearly written, contains lots of real examples, and is presented in a style and format designed for the non-expert. This book helps you more accurately focus on school improvement issues, so you can avoid wasting precious time and resources. It will help you make decisions which will improve learning for all students 443118583e

The Origin of Consciousness in the Breakdown of the Bicameral Mind 443118583e

In the 1960s most computers filled an entire room, but the spacecraft's computer was required to be compact and low power. Although people today find it difficult to accept that it was possible to control a spacecraft using such a 'primitive' computer, it nevertheless had capabilities that are advanced even by today's standards. In short, the intention is for this to be the definitive account of the Apollo guidance computer. The technological marvel that facilitated the Apollo missions to the Moon was the on-board computer. These Journals are generally considered the canonical online reference on the flights to the Moon. Frank O'Brien's interest in the Apollo program began as a serious amateur historian. About 12 years ago, he began performing research and writing essays for the Apollo Lunar Surface Journal, and the Apollo Flight Journal. He was then asked to assist the curatorial staff in the creation of the Cradle of Aviation Museum, on Long Island, New York, where he helped prepare the Lunar Module simulator, a LM procedure trainer and an Apollo space suit for display. Much of this work centered on his primary interests, the Apollo Guidance Computer (AGC) and the Lunar Module. He regularly lectures on the Apollo computer and related topics to diverse groups, from NASA's computer engineering conferences, the IEEE/ACM, computer festivals and university student groups. As a comprehensive account, it will span the disciplines of computer science, electrical and aerospace engineering. However, it will also be accessible to the 'space enthusiast'. This is the first book to fully describe the Apollo guidance computer's architecture, instruction format and programs used by the astronauts 443118583e

This book provides a Root Cause Analysis methodology for process and equipment problems with a unique insight on sources and type of problems that appear in process lines 443118583e

After reading this book, you will understanding how to integrate the scientific method, quality tools, and statistics, in the form of exploratory data analysis, to build a picture of the actual situation under investigation that will lead you to the true root cause of an event. Although there are many books on root cause analysis (RCA), most concentrate on team actions such as brainstorming and using quality tools to discuss the failure under investigation. It includes an appendix with a guide to tool selection based on the intended use of the tool. These may be necessary steps during RCA, but authors often fail to mention the most important member of an RCA team—the failed part. The tools and concepts presented in the text are appropriate for professionals in both the manufacturing and service industries. Focusing on the use of proven quality tools to empirically investigate issues, the book starts by describing the theoretical background behind using the scientific method and quality tools for RCA. There is also an appendix that defines the terminology used in the book. This RCA guide provides root cause investigators with a tool kit for the quick and accurate selection of the appropriate tool during a root cause investigation. Root Cause Analysis: A Step-By-Step Guide to Using the Right Tool at the Right Time provides authoritative guidance on how to empirically investigate quality failures using scientific method in the form of cycles of plan-do-check-act (PDCA), supported by the use of quality tools. Next, it supplies step-by-step instructions for performing RCA with the tools discussed in the first section. The book's clear examples illustrate how to integrate PDCA with the scientific method and quality tools when investigating real-world quality failures 443118583e

" When our actual plans deviate from our intended plans, we usually experience some type of undesirable or unintended outcome. We analyze the anatomy of a failure (undesirable outcome) and provide a step-by-step guide to conducting a comprehensive RCA based on our 3+ decades of applying RCA as we have successfully practiced it in the field. " Everyone uses the term, but everyone does it differently. This book is written as a how-to guide to effectively apply the PROACT® RCA methodology to any undesirable outcome, is directed at practitioners who have to do the real work, focuses on the core elements of any investigation, and provides a field-proven case as a model for effective application. This book is for anyone charged with having a thorough understanding of why something went wrong, such as those in EH&S, maintenance, reliability, quality, engineering, and operations to name just a few. Common investigation steps include: Preserving evidence (data)/not allowing hearsay to fly as fact Organizing an appropriate team/minimizing potential bias Analyzing the events/reconstructing the incident based on actual evidence Communicating findings and recommendations/ensuring effective recommendations are actually developed and implemented Tracking bottom-line results/ensuring that identified, meaningful metrics were attained We explore, "Why don't things always go as planned. In this book, we will get down to basics about RCA, the fundamentals of blocking and tackling, and explain the common steps of any investigative occupation. At a high level, we will explain the difference between RCA and Shallow Cause Analysis, because that is the difference between allowing a failure to recur or dramatically reducing the risk of recurrence. How can we have any uniformity in our approach, much less accurately compare our results, if we're applying different definitions. Root Cause Analysis, or RCA, "What is it 443118583e

DigiCat hopes you will treat this work with the acknowledgment and passion it deserves as a classic of world literature. DigiCat Publishing considers every written word to be a legacy of humankind. DigiCat Publishing presents to you this special edition of "The Aeneid" by Virgil. The books are available in print, as well as ebooks. Every DigiCat

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If you are responsible for quality, reliability, safety, and/or risk management, you'll want this comprehensive and practical resource at your fingertips. Collect data for problem-solving. \" Based on globally successful, proprietary methodology developed by ABS Consulting, an international firm with 50 years' experience in 35 countries. Root Cause Analysis Handbook: A Guide to Effective Incident Investigation is a powerful tool that gives you a detailed step-by-step process for learning from experience. Root Cause Analysis Handbook is widely used in corporate training programs and college courses all over the world. Reach for this handbook any time you need field-tested advice for investigating, categorizing, reporting and trending, and ultimately eliminating the root causes of incidents. Analyze data for root causes. You need the long-term planning that will keep the same issues from recurring. Identify and define inherent problems. It includes step-by-step instructions, checklists, and forms for performing an analysis and enables users to effectively incorporate the methodology and apply it to a variety of situations. Are you trying to improve performance, but find that the same problems keep getting in the way. The book has also been selected by the American Society for Quality (ASQ) and the Risk and Insurance Society (RIMS) as a \"must have\" for their members. Generate practical recommendations. Called by users \"the best resource on the subject\" and \"in a league of its own. Using the structured techniques in the Root Cause Analysis Handbook, you will: Understand why root causes are important. The third edition of this global classic is the most comprehensive, all-in-one package of book, downloadable resources, color-coded RCA map, and licensed access to online resources currently available for Root Cause Analysis (RCA). Safety, health, environmental quality, reliability, production, and security are at stake 443118583e

In the sections on finding root causes, this second edition now includes: more examples on the use of multi-vari charts; how thought experiments can help guide data interpretation; how to enhance the value of the data collection process; cautions for analyzing data; and what to do if one can't find the causes. In addition, the appendices have been revised to include: an expanded breakdown of the 7 M's, which includes more than 50 specific possible causes; forms for tracking causes and solutions, which can help maintain alignment of actions; techniques for how to enhance the interview process; and example responses to problem situations that the reader can analyze for appropriateness. It provides detailed steps for solving problems, focusing more heavily on the analytical process involved in finding the actual causes of problems. This best-seller can help anyone whose role is to try to find specific causes for failures. In its guidance on solution identification, biomimicry and TRIZ have been added as potential solution identification techniques. This increases our ability to see what is truly significant and to better identify errors in our thinking. It does this using figures, diagrams, and tools useful for helping to make our thinking visible 443118583e

Plus, quality management processes, such as ISO 9001, require organizations to have a corrective and preventive action process in place. Unresolved problems do more than aggravate. Root cause analysis should be seen as an opportunity, not a chore. Do you have recurring problems that are costing you time and money. Instead of viewing root cause analysis as an opportunity for improvement, many see it only as an admission that things have gone wrong. This practical guide offers proven techniques for using root cause analysis in your organization. They can increase costs, lower quality, and drive customers away. Root cause analysis is integral to the success of any corrective action or problem-solving process. Unfortunately, root cause analysis is an often maligned, misunderstood, and misapplied process. Inside you'll find: What root cause analysis is When (and when not) to use root cause analysis Who should participate in the root cause analysis process How to construct a root cause analysis checklist Examples of

how a well-run root cause analysis process works And much more 443118583e

The idea of the conference is to offer a unique setting for advancing the state of the art in research and practice of agile processes. It offers several different ways to interact and strives to create a truly collaborative environment where new ideas and exciting findings can be presented and shared. This is clearly visible from this year's program as well. Now, ten years later, they are better known as agile software development methods, and an active community driven by practitioners has formed around the new way of thinking. While new ideas are proposed almost on a yearly basis, very few of them live for a decade or a longer. Agile software development is currently being embraced by the research community as well. Due to the diverse nature of different activities during the conference, XP is claimed to be more of an experience rather than a regular conference. The XP conference series established in 2000 was the first conference dedicated to agile processes in software engineering. This year's conference was the tenth consecutive edition of this international event. As a sign of increased research activity, most research-oriented conferences have an agile software development track included in the conference program. The field of software engineering is characterized by speed and turbulence in many regards. Lightweight software development methods were a new idea in the latter part of the 1990s 443118583e

This book will change the way readers understand the world without changing their minds. Imagine a next decision-making meeting where everyone is in agreement with the causes of the problem and the effectiveness of the proposed corrective actions with no conflicts, arguments, or power politics. One of the most common responses the author has received from his students of Apollo Root Cause Analysis is they have always thought this way, but did not know how to express it. This is the promise of Apollo Root Cause Analysis. The purpose of this book is to share what the author has learned about effective problem solving by exposing the ineffectiveness of conventional wisdom and presenting a principle-based alternative called Apollo Root Cause Analysis that is robust, yet familiar and easy to understand. Other students have reported a phenomenon where this material fundamentally re-wires their thinking, leading to a deeply profound understanding of our world. At the heart of this book is a new way of communicating that is revolutionizing the way people all around the world think, communicate, and make decisions together 443118583e

The book is suited for employees and managers at any organizational level in any type of industry, including service, manufacturing, and the public sector. The layout of the book has been designed to help speed your learning. A roadmap in the margin of every page simplifies navigating the book and searching for specific topics. The examples used are general enough to apply to any industry or market. Throughout, the authors have split the pages into two halves: the top half presents key concepts using brief language\u0097almost keywords\u0097and the bottom half uses examples to help explain those concepts. This updated and expanded edition discusses many different tools for root cause analysis and presents them in an easy-to-follow structure: a general description of the tool, its purpose and typical applications, the procedure when using it, an example of its use, a checklist to help you make sure it is applied properly, and different forms and templates (that can also be found on an accompanying CD-ROM) 443118583e

For instance audits and root cause analysis work this way. This book is based on my experience as a developer, tester, team leader, project manager, quality manager, process manager, consultant, coach, trainer, and adviser in Agile, Lean, Quality and Continuous Improvement. It should help you, the reader of this book, to improve the quality of your software and deliver better products. It takes a deep dive into quality with views from different perspectives and provides ideas, suggestions, practices, and

experiences that will help you to improve quality of the products that your organization is delivering. Many methods for product quality improvement start by investigating the problems, and then work their way back to the point where the problem started. But what if you could prevent problems from happening, by building an understanding what drives quality, thus enabling to take action before problems actually occur. A book on quality should be practical. It should inspire you and give you energy to persevere on your quality journey. What drives quality tries to do just that, and more. It takes a deep dive into quality by listing the relevant factors of development and management activities that drive the quality of software products. It explores the interaction between all involved in delivering high-quality software to users and provides ideas to do it quicker and at lower costs. This book views software quality from an engineering, management, and social perspective. It provides a lean approach to quality by analyzing the full development chain from customer requests to delivering products to users. With plenty of ideas, suggestions, and practical cases on software quality, this book will help you to improve the quality of your software and to deliver high-quality products to your users and satisfy the needs of your customers and stakeholders. I'm aiming this book at software developers and testers, architects, product owners and managers, agile coaches, Scrum masters, project managers, and operational and senior managers who consider quality to be important. What Drives Quality explores how quality plays a role in all of the software development activities 443118583e

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