

## Case Study On Analysis Of Financial Statements At A

Health inequalities blight lives, generate enormous costs, and exist everywhere. This book is the definitive all-in-one guide for anyone who wishes to learn about, commission, and use distributional cost-effectiveness analysis to promote both equity and efficiency in health and healthcare.

Handbook of Materials Failure Analysis: With Case Studies from the Aerospace and Automotive Industries provides a thorough understanding of the reasons materials fail in certain situations, covering important scenarios, including material defects, mechanical failure as a result of improper design, corrosion, surface fracture, and other environmental causes. The book begins with a general overview of materials failure analysis and its importance, and then logically proceeds from a discussion of the failure analysis process, types of failure analysis, and specific tools and techniques, to chapters on analysis of materials failure from various causes. Later chapters feature a selection of newer examples of failure analysis cases in such strategic industrial sectors as aerospace, oil & gas, and chemicals. Covers the most common types of materials failure, analysis, and possible solutions Provides the most up-to-date and balanced coverage of failure analysis, combining foundational knowledge, current research on the latest developments, and innovations in the field Ideal accompaniment for those interested in materials forensic investigation, failure of materials, static failure analysis, dynamic failure analysis, fatigue life prediction, rotorcraft, failure prediction, fatigue crack propagation, bevel pinion failure, gasketless flange, thermal barrier coatings Presents compelling new case studies from key industries to demonstrate concepts Highlights the role of site conditions, operating conditions at the time of failure, history of equipment and its operation, corrosion product sampling, metallurgical and electrochemical factors, and morphology of failure

Multiple Case Study Analysis Guilford Press

This book seeks to better understand how International Environmental Law regimes evolve. The authors address throughout the major environmental, economic, and political tensions that have both shaped and constrained the evolution of international environmental policy within regimes, and its expression in international legal rule and norm development. Readers will gain an increased understanding of the growing role played by non-state actors in global environmental governance, including environmental non-government organisations, scientists, the United Nations, and corporations. The authors also look ahead to the future of International Environmental Law, evaluating key challenges and decisions that the discipline will face. The text is clear, concise, and accessible. It is ideally suited to students and professionals interested in International Environmental Law, and individuals who are intrigued by this dynamic area of law.

Case study research has a long history within the natural sciences, social sciences, and humanities, dating back to the early 1920's. At first it was a useful way for researchers to make valid inferences from events outside the laboratory in ways consistent with the rigorous practices of investigation inside the lab. Over time, case study approaches garnered interest in multiple disciplines as scholars studied phenomena in context. Despite widespread use, case study research has received little attention among the literature on research strategies. The Encyclopedia of Case Study Research provides a compendium on the important methodological issues in conducting case study research and explores both the strengths and weaknesses of different paradigmatic approaches. These two volumes focus on the distinctive characteristics of case study research and its place within and alongside other research methodologies. Key Features Presents a definition of case study research that can be used in different fields of study Describes case study as a research strategy rather than as a single tool for decision making and inquiry Guides rather than dictates, readers' understanding and applications of case study research Includes a critical summary in each entry, which raises additional matters for reflection Makes case study relevant to researchers at various stages of their careers, across philosophic divides, and throughout diverse disciplines Key Themes Academic Disciplines Case Study Research Design Conceptual Issues Data Analysis Data Collection Methodological Approaches Theoretical Traditions Theory Development and Contributions From Case Study Research Types of Case Study Research

The complete guide for how to design and conduct theory-testing and other case studies... Case Study Methodology in Business Research sets out structures and guidelines that assist students and researchers from a wide range of disciplines to develop their case study research in a consistent and rigorous manner. It clarifies the differences between practice-oriented and theory-oriented research and, within the latter category, between theory-testing and theory-building. It describes in detail how to design and conduct different types of case study research, providing students and researchers with everything they need for their project. The main aims are to: \* present a broad spectrum of types of case study research (including practice-oriented case studies, theory-building case studies and theory-testing case studies) in one consistent methodological framework. \* emphasize and clearly illustrate that the case study is the preferred research strategy for testing deterministic propositions such as those expressing a necessary condition case by case and that the survey is the preferred research strategy for testing probabilistic propositions. \* stress the role of replication in all theory-testing research, irrespective of which research strategy is chosen for a specific test. \* give more weight to the importance of theory-testing relative to theory-building. Case Study Methodology in Business Research is a clear, concise and comprehensive text for case study methodology. Templates are supplied for case study protocol and how to report a case study. A modular textbook primarily aimed at serving research methodology courses for final year undergraduate students and graduate students in Business Administration and Management, which is also useful as a handbook for researchers. Written by Jan Dul, Professor of Technology and Human Factors, RSM Erasmus University, Rotterdam and Tony Hak, Associate professor of Research Methodology, RSM Erasmus University, Rotterdam, in collaboration with other authors from RSM Erasmus University. \* Provides students with

everything needed to design and conduct a case study project \* Templates are supplied clearly demonstrating case study protocol and how to report a case study \* A highly accessible, concise and comprehensive text for Case Study methodology

BETTER THINKING, BETTER RESULTS answers the question: "How do you conduct a Lean transformation?" It is a detailed case study and analysis of The Wiremold Company's enterprise-wide Lean transformation from 1991-2001, notable for the integration of both technical and human aspects. It is an authoritative and practical Lean implementation manual that will help guide managers on their journey. You will learn how the management team at Wiremold applied Lean principles and practices to human resources, finance, sales, marketing, engineering, operations, acquisitions process, and throughout the value stream with suppliers, intermediate customers, and end-use customers. You'll be amazed at the financial and non-financial results they achieved. The second edition brings the story up-to-date with a new chapter that describes what happened to Wiremold's Lean management efforts since 2001. You will learn vital lessons about the challenge of maintaining continuity in Lean management practice over the long term. BETTER THINKING, BETTER RESULTS won a Shingo Prize in 2003 as the first book to describe an enterprise-wide Lean transformation in a real company where both principles of Lean management - "Continuous Improvement" and "Respect for People" - were applied. There is no other book like this one. "Everything you need to know about a Lean transformation is explained between these covers..." - James P. Womack, Chairman and Founder of the Lean Enterprise Institute

Students and researchers all write under pressure, and those pressures—most lamentably, the desire to impress your audience rather than to communicate with them—often lead to pretentious prose, academic posturing, and, not infrequently, writer's block. Sociologist Howard S. Becker has written the classic book on how to conquer these pressures and simply write. First published nearly twenty years ago, *Writing for Social Scientists* has become a lifesaver for writers in all fields, from beginning students to published authors. Becker's message is clear: in order to learn how to write, take a deep breath and then begin writing. Revise. Repeat. It is not always an easy process, as Becker wryly relates. Decades of teaching, researching, and writing have given him plenty of material, and Becker neatly exposes the foibles of academia and its "publish or perish" atmosphere. Wordiness, the passive voice, inserting a "the way in which" when a simple "how" will do—all these mechanisms are a part of the social structure of academic writing. By shrugging off such impediments—or at the very least, putting them aside for a few hours—we can reform our work habits and start writing lucidly without worrying about grades, peer approval, or the "literature." In this new edition, Becker takes account of major changes in the computer tools available to writers today, and also substantially expands his analysis of how academic institutions create problems for them. As competition in academia grows increasingly heated, *Writing for Social Scientists* will provide solace to a new generation of frazzled, would-be writers.

This book analyzes the impact of digitization on management accounting in five manufacturing companies. It is one of the first in-depth empirical studies on the intersection of management accounting and digitization. The study suggests that there are two archetypes of digitization of the management accounting function. The first archetype emphasizes top-down-driven changes that aim to enhance efficiency, such as conducting tasks with a higher degree of automation in a leaner structure with fewer resources. The second archetype is strongly driven and initiated by employees in the management accounting function (bottom-up). The focus is on improving the use of data by applying innovative analytics methods, integrating additional sources of data, and benefiting from new technologies like artificial intelligence. The results of the study also indicate that digitization of the management accounting function is mostly in line with the overall company strategy.

The guide all MBAs and executive students need. If you're enrolled in an MBA or executive education program, you've probably encountered a powerful learning tool: the business case. But if you're like many people, you may find interpreting and writing about cases mystifying and time-consuming. In *The Case Study Handbook, Revised Edition*, William Ellet presents a potent new approach for efficiently analyzing, discussing, and writing about cases. Early chapters show how to classify cases according to the analytical task they require (making a decision, performing an evaluation, or diagnosing a problem) and quickly establish a base of knowledge about a case. Strategies and templates, in addition to several sample Harvard Business School cases, help you apply the author's framework. Later in the book, Ellet shows how to write persuasive case-analytical essays based on the process laid out earlier. Examples of effective writing further reinforce the methods. The book also includes a chapter on how to talk about cases more effectively in class. Any current or prospective MBA or executive education student needs this guide.

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The Middle East is one of the fastest growing and significant markets in world sport, as well as a powerful source of investment in sport. Bids for the Olympics in 2020 and the soccer World Cup in 2022, as well as remarkable investments in Formula One motor racing, horse racing and English Premier League soccer clubs, demonstrate the strength of interest, the depth of resource and the technical expertise maintained by sport business interests in the region. *Sport Management in the Middle East* is the first book to offer a serious and in-depth analysis of the business and management of sport in the region. Written by a team of world leading researchers in Middle Eastern sport, and illustrated in full colour throughout, the book examines the importance of sport in the Middle East and introduces its particular management processes, structures and cultures. As well as providing an overview of the region's sporting strategy and key stakeholders, the book also offers a number of detailed case-studies of sport in individual Middle Eastern countries. A unique guide to sport management in a region of fundamental importance in world sport, this book is essential reading for any serious student or scholar of sport management, sport business, Middle East studies, or sport and society.

This book expands the current discussion on ethics, addressing the gap between "headline" ethics cases, which are often extreme and taken from a business context, and the everyday ethical challenges that we all face in school, work, relationships, and communities. Case studies throughout demonstrate concepts and provide opportunities for readers to apply theory as they consider everyday issues such as the temptation to lie about an arrest on a job application, peer pressure to steal or drink, and the implications of "ratting out" a classmate who is cheating or a co-worker who is stealing. By including a broad array of ethical challenges, this book makes ethics more accessible to the reader. Drawing from several academic disciplines, including social psychology and organizational behavior, this book explores the personal and environmental factors that influence our ethical decision-making. The book is appropriate for ethics courses in an array of disciplines as well as anyone interested in ethical challenges.

*The Practice of Reproducible Research* presents concrete examples of how researchers in the data-intensive sciences are working to improve the reproducibility of their research projects. In each of the thirty-

one case studies in this volume, the author or team describes the workflow that they used to complete a real-world research project. Authors highlight how they utilized particular tools, ideas, and practices to support reproducibility, emphasizing the very practical how, rather than the why or what, of conducting reproducible research. Part 1 provides an accessible introduction to reproducible research, a basic reproducible research project template, and a synthesis of lessons learned from across the thirty-one case studies. Parts 2 and 3 focus on the case studies themselves. The Practice of Reproducible Research is an invaluable resource for students and researchers who wish to better understand the practice of data-intensive sciences and learn how to make their own research more reproducible. Presented in an engaging and stimulating manner, this text provides beginning teachers a variety of typical classroom problems to analyse and solve.

Educators today are challenged with the task of designing curricula and standards for students of varying abilities. While technology and innovation steadily improve classroom learning, teachers and administrators continue to struggle in developing the best methodologies and practices for students with disabilities. Models for Effective Service Delivery in Special Education Programs brings together case studies and academic research on successful classroom models and practices to provide rewarding learning environments for students with disabilities. This publication is an essential reference source for special education teachers, supervisors, directors, and administrators, as well as academicians and researchers interested in developing special education programs within school districts and classrooms. Due to the global health crisis, economies had to adapt to combat pandemic situations. In the present pandemic crisis, new legislation, methods, labor approaches, values, and social behaviors have emerged with a huge impact in all organizations. However, countries have applied different solutions, procedures, and rules to deal with crises. Therefore, the impact has been different per country. Organizations need to understand their customers and businesses not only to increase operational efficiency but also to increase stakeholder's satisfaction and their competitiveness in a sustainable way. Customers are becoming more exigent and markets more complex, calling for the need for higher differentiation. This was enhanced in this pandemic situation, and to survive, organizations needed to change and adapt to the new normal. The Handbook of Research on Reinventing Economies and Organizations Following a Global Health Crisis deals with management and economic issues, particularly with the reinvention of businesses and economies due to the pandemic situation and the relevance of entrepreneurship, innovation, and intensive knowledge used to deal with these changes. This book emphasizes the challenges, difficulties, and opportunities for the success of businesses and economies in periods of crisis and provides information for dealing with entrepreneurship and innovation, networks, and complementarities to recover businesses. The chapters also point out possible opportunities, challenges, and risks in the process of recovery highlighting innovation, internationalization, technology, and intensive knowledge in promoting economies and companies' competitiveness. This book is ideal for entrepreneurs, managers, economists, directors, shareholders, researchers, academicians, and students interested in how businesses reinvent and recover following a global health crisis. In an embedded case study, the starting and end point is the comprehension of the case as a whole in its real-world context. However, in the course of analysis the case will be faceted either by different perspectives of inquiry or by several sub-units. The book presents different methodological approaches to organize this faceting process. It uses the power of the system approach in order to apply methods, which allow a scientific treatment of complex cases in a way that will be also acknowledged by the quantitative research community. The authors emphasize that a qualitative analysis starting from the real-world level is an indispensable part of case analysis. Thus the book bridges the gap between quantitative and qualitative approaches to complex problems when using the case study methodology.

Reflecting recent knowledge and developments in the field, this very practical, easy-to-use guide emphasizes learning how to do case study research--from the first step of deciding whether a case study is the way to go to the last step of verifying and confirming findings before disseminating them. The authors show students how to: determine an appropriate research design; conduct informative interviews; record observations; document analyses; delineate ways to confirm case study findings; describe methods for deriving meaning from data; and communicate their findings. Featuring many new examples, the Third Edition offers step-by-step guidance to help beginning researchers through the stages of planning and implementing a thesis, dissertation, or independent project. This succinct "how-to" guide is an excellent place for anyone to begin doing case study research.

This book calls into question the commonly held contentions that central governments are the most important or even the sole sources of a nation's stability, and that subnational and transnational nonstate forces are a major source of global instability. By assessing recent real-world trends, Mandel reveals that areas exist where it makes little sense to rely on state governments for stability, and that attempts to bolster such governments to promote stability often prove futile. He demonstrates how armed nonstate groups can sometimes provide local stability better than states, and how power-sharing arrangements between states and armed nonstate groups may sometimes be viable. He concludes that these trends in the international setting call for major shifts in our understanding of what constitutes stable governance—proposing that we adopt a fluid "emergent actor" approach. And he calls for significant deviation from standard policy responses to the opportunities and dangers posed by nontraditional sources of national authority.

This Handbook offers a comprehensive overview of state-of-the-art research methods and applications currently in use in political science. It combines theory and methodology (qualitative and quantitative), and offers insights into the major approaches and their roots in the philosophy of scientific knowledge. Including a comprehensive discussion of the relevance of a host of digital data sources, plus the dos and don'ts of data collection in general, the book also explains how to use diverse research tools and highlights when and how to apply these techniques.

In higher education, case studies can be utilized to have students put themselves into problems faced by a protagonist and, by doing so, address academic or career-related issues. Working through these issues provides students with an opportunity to gain applied perspective and experiences. Professors in higher education who choose this method of teaching require navigational tools to ensure that students achieve stated learning objectives. Case Study Methodology in Higher Education is an essential research

publication that focuses on the history and theories relating to case study methodology including techniques for writing case studies and utilizing them in university settings to prepare students for real-life career-related scenarios. This publication features a wide range of topics such as educational leadership, case writing, and teacher education. It is essential for educators, career professionals, higher education faculty, researchers, and students.

**NMR Case Studies: Data Analysis of Complicated Molecules** provides a detailed discussion of the full logical flow associated with assigning the NMR spectra of complex molecules, also helping readers further develop their NMR spectral assignment skills. The robust case studies present the logic of each assignment, from beginning to end, fully exploring the available range of potential solutions. Readers will gain a better appreciation of various approaches and develop an intuitive sense for when this particular concept should be implemented, thus enhancing their skillsets and providing a host of methodologies potentially amenable to yielding correct assignments. Authored by a scientist with more than 20 years of experience in research and instruction, this book is the ideal reference for anyone in search of application-based content. The book addresses complicated molecules, including corticosteroids, biomolecules, polypeptides, and secondary metabolites. Features the nuclear magnetic resonance (NMR) spectra of a number of large and interesting molecules, ranging from corticosteroids, to secondary metabolites and large synthetically prepared molecules Uses case studies to pair the spectral signals from the various sites of each molecule to their molecular counterparts in a process called assignment Includes complex NMR problems, aiding readers in the development of NMR spectral assignment skills Features input from a leading scientist with over 20 years of research and instruction experience in the field

3.5 Empirical Findings 85  
3.5.1 Data 85; 3.5.2 Descriptive Statistics 90; 3.5.3 Method 95; 3.5.4 Regression Results 98; 3.6 Conclusion 111.

Provides an approach for analyzing, discussing, and writing about cases. This book shows how to classify cases according to analytical task they require (solving a problem, making a decision, or forming an evaluation) and establish a base of knowledge about a case. It shows how to talk about cases in class.

The book will help assist a reader in the development of techniques for analysis of biomedical signals and computer aided diagnoses with a pedagogical examination of basic and advanced topics accompanied by over 350 figures and illustrations. Wide range of filtering techniques presented to address various applications 800 mathematical expressions and equations Practical questions, problems and laboratory exercises Includes fractals and chaos theory with biomedical applications

How does social media affect working life in Higher Education? How are universities harnessing its power to aid student learning? This innovative collection brings together academics and those working in professional services to examine these questions and more. The diverse and expert contributors analyse the many ways social media can be used to enhance teaching and learning, research, professional practice, leadership, networking and career development. The impact of social media is evaluated critically, with an eye both to the benefits and the problems of using these new forms of digital communication. This is the first volume to give such detailed attention to this area of high interest. Its innovative approach extends to its creation, with contributors found via their presence on Twitter. The short and impactful chapters are accessible while retaining an academic focus through their application of relevant learning theories and educational context. Social Media and Higher Education is essential reading for any professional working in higher education, including lecturers teaching education courses. It is also significant for researchers looking at more recent developments in the field and what it means to work in a modern higher education environment.

**Handbook of Materials Failure Analysis: With Case Studies from the Chemicals, Concrete and Power Industries** provides an in-depth examination of materials failure in specific situations, a vital component in both developing and engineering new solutions. This handbook covers analysis of materials failure in the chemical, power, and structures arenas, where the failure of a single component can result in devastating consequences and costs. Material defects, mechanical failure as a result of improper design, corrosion, surface fracture, and other failure mechanisms are described in the context of real world case studies involving steam generators, boiler tubes, gas turbine blades, welded structures, chemical conversion reactors and more. This book is an indispensable reference for engineers and scientists studying the mechanisms of failure in these fields. Introduces readers to modern analytical techniques in materials failure analysis Combines foundational knowledge with current research on the latest developments and innovations in the field Includes many compelling case studies of materials failure in chemical processing plants, concrete structures, and power generation systems

In **Case Study Research**, Bill Lee and Mark Saunders describe the properties of case study designs in organizational research, exploring the uses, advantages and limitations of case research. They also demonstrate the flexibility that case designs offer, and challenges the myths surrounding this approach. Ideal for Business and Management students reading for a Master's degree, each book in the series may also serve as reference books for doctoral students and faculty members interested in the method. Part of SAGE's Mastering Business Research Methods series, conceived and edited by Bill Lee, Mark N. K. Saunders and Vadake K. Narayanan and designed to support students by providing in-depth and practical guidance on using a chosen method of data collection or analysis. Watch the editors introduce the Mastering Business Research Methods series and tell you more about the first three books.

Examining situational complexity is a vital part of social and behavioral science research. This engaging text provides an effective process for studying multiple cases--such as sets of teachers, staff development sessions, or clinics operating in different locations--within one complex program. The process also can be used to investigate broadly occurring phenomena without programmatic links, such as leadership or sibling rivalry. Readers learn to design, analyze, and report studies that balance common issues across the group of cases with the unique features and context of each case. Three actual case reports from a transnational early childhood program illustrate the author's approach, and helpful reproducible worksheets facilitate multicase recording and analysis.

This book outlines the benefits and limitations of simulation, what is involved in setting up a simulation capability in an organization, the steps involved in developing a simulation model and how to ensure that model results are implemented. In addition, detailed example applications are provided to show where the tool is useful and what it can offer the decision maker. In **Simulating Business Processes for Descriptive, Predictive, and Prescriptive Analytics**, Andrew Greasley provides an in-depth discussion of Business process simulation and how it can enable

business analytics How business process simulation can provide speed, cost, dependability, quality, and flexibility metrics Industrial case studies including improving service delivery while ensuring an efficient use of staff in public sector organizations such as the police service, testing the capacity of planned production facilities in manufacturing, and ensuring on-time delivery in logistics systems State-of-the-art developments in business process simulation regarding the generation of simulation analytics using process mining and modeling people's behavior Managers and decision makers will learn how simulation provides a faster, cheaper and less risky way of observing the future performance of a real-world system. The book will also benefit personnel already involved in simulation development by providing a business perspective on managing the process of simulation, ensuring simulation results are implemented, and that performance is improved.

The first book of Failure Analysis Case Studies selected from volumes 1, 2 and 3 of the journal Engineering Failure Analysis was published by Elsevier Science in September 1998. The book has proved to be a sought-after and widely used source of reference material to help people avoid or analyse engineering failures, design and manufacture for greater safety and economy, and assess operating, maintenance and fitness-for-purpose procedures. In the last three years, Engineering Failure Analysis has continued to build on its early success as an essential medium for the publication of failure analysis cases studies and papers on the structure, properties and behaviour of engineering materials as applied to real problems in structures, components and design. Failure Analysis Case Studies II comprises 40 case studies describing the analysis of real engineering failures which have been selected from volumes 4, 5 and 6 of Engineering Failure Analysis. The case studies have been arranged in sections according to the specific type of failure mechanism involved. The failure mechanisms covered are overload, creep, brittle fracture, fatigue, environmental attack, environmentally assisted cracking and bearing failures. The book constitutes a reference set of real failure investigations which should be useful to professionals and students in most branches of engineering.

Studying Complex Interactions and Outcomes Through Qualitative Comparative Analysis: A Practical Guide to Comparative Case Studies and Ethnographic Data Analysis offers practical, methodological, and theoretically robust guidelines to systematically study the causalities, dynamics, and outcomes of complex social interactions in multiple source data sets. It demonstrates how to convert data from multisited ethnography of investment politics, mobilizations, and citizen struggles into a Qualitative Comparative Analysis (QCA). In this book, Markus Kröger focuses on how data collected primarily via multisited political ethnography, supplemented by other materials and verified by multiple forms of triangulation, can be systematically analyzed through QCA. The results of this QCA offer insight on how to study the political and economic outcomes in natural resource conflicts, across different contexts and political systems. This book applies the method in practice using examples from the author's own research. With a focus on social movement studies, it shows how QCA can be used to analyze a multiple data source database, that includes results from multiple case studies. This book is a practical guide for researchers and students in social movement studies and other disciplines that produce ethnographic data from multiple sources on how to analyze complex databases through the QCA.

The use of case studies to build and test theories in political science and the other social sciences has increased in recent years. Many scholars have argued that the social sciences rely too heavily on quantitative research and formal models and have attempted to develop and refine rigorous methods for using case studies. This text presents a comprehensive analysis of research methods using case studies and examines the place of case studies in social science methodology. It argues that case studies, statistical methods, and formal models are complementary rather than competitive. The book explains how to design case study research that will produce results useful to policymakers and emphasizes the importance of developing policy-relevant theories. It offers three major contributions to case study methodology: an emphasis on the importance of within-case analysis, a detailed discussion of process tracing, and development of the concept of typological theories. Case Studies and Theory Development in the Social Sciences will be particularly useful to graduate students and scholars in social science methodology and the philosophy of science, as well as to those designing new research projects, and will contribute greatly to the broader debate about scientific methods.

Seminar paper from the year 2018 in the subject Business economics - General, grade: 1,7, International School of Management, Campus Munich, language: English, abstract: As the number of publications referring to Amazon increased formidable during the last years, it is a highly discussed retail brand, which is becoming more and more important. In July 2016, the UK trade marketing association DMA1 published a study showing Amazon as favorite retail brand amongst competitors like John Lewis, Marks & Spencer, eBay and ASOS. Every fourth of the 1000 participants voted for Amazon, even though they were not given a shortlist with answers, but an empty text-box to fill in their favorable retail brand. This paper deals with aspects referring to the research fields Advanced Strategic Management, Business Development and International Business Game. At the end of each part a summary with the most fundamental information helps to build a broad overview.

Handbook of Materials Failure Analysis: With Case Studies from the Oil and Gas Industry provides an updated understanding on why materials fail in specific situations, a vital element in developing and engineering new alternatives. This handbook covers analysis of materials failure in the oil and gas industry, where a single failed pipe can result in devastating consequences for people, wildlife, the environment, and the economy of a region. The book combines introductory sections on failure analysis with numerous real world case studies of pipelines and other types of materials failure in the oil and gas industry, including joint failure, leakage in crude oil storage tanks, failure of glass fibre reinforced epoxy pipes, and failure of stainless steel components in offshore platforms, amongst others. Introduces readers to modern analytical techniques in materials failure analysis Combines foundational knowledge with current research on the latest developments and innovations in the field Includes numerous compelling case studies of materials failure in oil and gas pipelines and drilling platforms

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