

Online Library Conversation Failure Case Studies In Tor Patient Communication Pdf Free Copy

Failure Case Studies Project Recovery Failure Analysis Case Studies II Beyond Failure Handbook of Materials Failure Analysis with Case Studies from the Aerospace and Automotive Industries Failure Case Studies in Civil Engineering Project Recovery Failure Case Studies Failures in Concrete Structures Handbook of Materials Failure Analysis with Case Studies from the Oil and Gas Industry Handbook of Materials Failure Analysis with Case Studies from the Chemicals, Concrete and Power Industries Failure Case Studies Metallurgical Failure Analysis Handbook of Materials Failure Analysis Handbook of Materials Failure Analysis Case Studies Strategies in Failure Management Failure of Plastics and Rubber Products Failure Analysis Case Studies III Corrosion Failures Practical Root Cause Failure Analysis Building Failures Engineering Materials 3 Failure Analysis and Fractography of Polymer Composites Failures in Civil Engineering CRISIS MANAGEMENT: THE ART OF SUCCESS & FAILURE Harnessing the Power of Failure Interdisciplinary and Transdisciplinary Failures Failure Analysis Case Studies Applied Engineering Failure Analysis Why Projects Fail Failure Analysis of Engineering Structures After-School Centers and Youth Development Successes and Failures of Knowledge Management Handbook of Case Histories in Failure Analysis, Volume 2 Failing in the Field Failed Bridges To Engineer is Human Clinical Case Studies for the Family Nurse Practitioner Five Case Studies of Arithmetic Failures

Failure Analysis and Fractography of Polymer Composites Mar 05 2021 The growing use of polymer composites is leading to increasing demand for fractographic expertise. Fractography is the study of fracture surface morphologies and it gives an insight into damage and failure mechanisms, underpinning the development of physically-based failure criteria. In composites research it provides a crucial link between predictive models and experimental observations. Finally, it is vital for post-mortem analysis of failed or crashed polymer composite components, the findings of which can be used to optimise future designs. Failure analysis and fractography of polymer composites covers the following topics: methodology and tools for failure analysis; fibre-dominated failures; delamination-dominated failures; fatigue failures; the influence of fibre architecture on failure; types of defect and damage; case studies of failures due to overload and design deficiencies; case studies of failures due to material and manufacturing defects; and case studies of failures due to in-service factors. With its distinguished author, Failure analysis and fractography of polymer composites is a standard reference text for researchers working on damage and failure mechanisms in composites, engineers characterising manufacturing and in-service defects in composite structures, and investigators undertaking post-mortem failure analysis of components. The book is aimed at both academic and industrial users, specifically final year and postgraduate engineering and materials students researching composites and industry designers and engineers in aerospace, civil, marine, power and transport applications. Examines the study of fracture surface morphologies in understanding composite structural behaviour Discusses composites research and post-modern analysis of failed or crashed polymer composite components Provides an overview of damage mechanisms, types of defect and failure criteria

Failures in Civil Engineering Feb 04 2021 This convenient summary of case studies reviews the performance and failure of structural, foundation,

and geoenvironmental civil engineering systems. Failures in embankments, dams, slopes, landfills, recycling facilities, bridges, and buildings are covered. For each study, an outline, a summary of the lessons learned, and a list of background references are provided. The ongoing study of the tower of Pisa, the lower San Fernando Dam, Love Canal, the Tacoma Narrows Bridge, the San Francisco-Oakland Bay Bridge, the Cypress Viaduct, the Hartford Civic Center Coliseum, and the Hyatt Regency Hotel Pedestrian Walkways are among the case studies examined.

Failure Analysis Case Studies Nov 13 2021 Hardbound. This book comprises 36 case studies describing the analysis of real engineering failures which have been selected from the first three volumes of Engineering Failure Analysis. The case studies are arranged in sections, with the papers in each section being devoted to one specific type of failure mechanism. The failure mechanisms covered are overload, brittle fracture, fatigue (initiation-based), fatigue (welded fabrications), fatigue (fracture mechanics), environmental attack, environmentally-assisted cracking, manufacturing failures and bearing failures.

Handbook of Materials Failure Analysis Jan 15 2022 Handbook of Materials Failure Analysis: With Case Studies from the Electronics Industries examines the reasons materials fail in certain situations, including material defects and mechanical failure as a result of various causes. The book begins with a general overview of materials failure analysis and its importance. It then proceeds to discussions on the types of failure analysis, specific tools and techniques, and an analysis of materials failure from various causes. As failure can occur for several reasons, including materials defects-related failure, materials design-related failure, or corrosion-related failures, the topics covered in this comprehensive source are an important tool for practitioners. Provides the most up-to-date and balanced coverage of failure analysis, combining foundational knowledge and current research on the latest developments and innovations in the field Offers an ideal accompaniment for those interested in materials forensic investigation, failure of materials, static failure analysis, dynamic failure analysis, and fatigue life prediction Presents compelling new case studies from key industries to demonstrate concepts

Beyond Failure Nov 25 2022 Norbert Delatte presents the circumstances of important failures that have had far-reaching impacts on civil engineering practice, organized around topics in the engineering curriculum.

Building Failures May 07 2021

Failure Analysis Case Studies Sep 30 2020

Five Case Studies of Arithmetic Failures Oct 20 2019 Excerpt from Five Case Studies of Arithmetic Failures: Thesis Case 3. School History Character of Child Home Conditions Cause of Failure Procedure Remedial Work Summary Record of Tests and Results Summary of Case 3 Case 4. School History Character of Child Home Conditions Cause of Failure Procedure Remedial Work Summary Record of Tests and Results Summary of Case 4 Case 5. School History Character of Child Home Conditions Cause of Failure Procedure Remedial Work. About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books. Find more at www.forgottenbooks.com This book is a reproduction of an important historical work. Forgotten Books uses state-of-the-art technology to digitally reconstruct the work, preserving the original format whilst repairing imperfections present in the aged copy. In rare cases, an imperfection in the original, such as a blemish or missing page, may be replicated in our edition. We do, however, repair the vast majority of imperfections successfully; any imperfections that remain are intentionally left to preserve the state of such historical works.

Project Recovery Aug 22 2022 Best practices for picking up the pieces when projects fail There are plenty of books available offering best practices that help you keep your projects on track, but offer guidance on what to do when the worst has already happened. Some studies show that more than half of all large-scale project fail either fail completely, or at least miss targeted budget and scheduling goals. These failures cost organizations time,

money, and labor. Project Recovery offers wise guidance and real-world best practices for saving failed projects and recovering as much value as possible from the wreckage. Since failing project cannot be managed using the same lifecycle phases employed with succeeding projects, most project management professionals are unprepared to tackle the challenge of project recovery. This book presents valuable case studies and a recovery project lifecycle to help project managers identify and respond effectively to a troubled project. Includes case studies and best practices for saving failing projects or recovering projects that have already failed Written by experience project manager Howard Kerzner, the author of Project Management Best Practices, Third Edition Features proven techniques for performing project health checks and determining the degree of failure and the recovery options available Includes a new recovery lifecycle that includes phases and checklists for turning around failing projects With comprehensive case studies, checklists, worksheets, and cross listings to the appropriate project management body of knowledge, Project Recovery offers a much needed lifeline for managers facing the specter of failure.

Practical Root Cause Failure Analysis Jun 08 2021 Root Cause Failure Analysis (RCFA) is a method used by maintenance and reliability industry professionals as one of the key tools to drive improvement. This book offers a quick guide to the applications involved in performing a successful RCFA by providing a foundational view of maintenance and reliability strategies. It also highlights the practical applications of RCFA and identifies how to achieve a successful RCFA, as well as discussing common equipment failures and how to solve them. Case studies on topics including pump system failure analysis and vibration analysis are included. Suggests examples on how to solve common failure on many types of equipment, including fatigue, pumps, bearings, and mechanical power transmission Highlights practical applications of RCFA Identifies key elements for how to achieve a successful RCFA Presents case studies on topics including pump system failure analysis and vibration analysis The book is a must-read for any reliability engineer, particularly mechanical reliability professionals.

Harnessing the Power of Failure Dec 02 2020 In this book the authors employ the SFCS approach to explore a vast array of failure events in multiple sectors of transportation, industry, aerospace, construction, and critical infrastructure.

Handbook of Materials Failure Analysis with Case Studies from the Chemicals, Concrete and Power Industries Apr 18 2022 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

Clinical Case Studies for the Family Nurse Practitioner Nov 20 2019 Clinical Case Studies for the Family Nurse Practitioner is a key resource for advanced practice nurses and graduate students seeking to test their skills in assessing, diagnosing, and managing cases in family and primary care. Composed of more than 70 cases ranging from common to unique, the book compiles years of experience from experts in the field. It is organized chronologically, presenting cases from neonatal to geriatric care in a standard approach built on the SOAP format. This includes differential diagnosis and a series of critical thinking questions ideal for self-assessment or classroom use.

Failure Analysis of Engineering Structures Jun 27 2020 Printbegrænsninger: Der kan printes 10 sider ad gangen og max. 40 sider pr. session

Failure Case Studies Mar 17 2022 "This book gives examples of failed civil engineering projects and the lessons learned from the failures. The case studies were gathered by ASCE's Forensic Engineering Division"--

Applied Engineering Failure Analysis Aug 30 2020 Applied Engineering Failure Analysis: Theory and Practice provides a point of reference for engineering failure analysis (EFA) cases, presenting a compilation of case studies covering a 35-year period, from the 1970s to 2012. This period spans the era from the time when slide rules were used routinely for engineering calculations, and when hard-copy photographs taken by film cameras were pasted onto typewritten sheets to make reports, to the present time when all these functions have become much less onerous through computer assistance. The cases are drawn from such diverse fields as mechanical engineering, metallurgy, mining, civil/structural engineering, electrical power systems, and radiation damage; the last two topics are quite scarce in current publications. It includes theoretical content that deals with useful topics in basic theory, material properties, failure mechanisms, EFA methodology, and applications. It provides high-quality illustrations throughout, which greatly helps to promote the understanding of the failure characteristics described. This book offers an integrated approach that serves as a useful first reference in the above topics, for undergraduate and postgraduate students, as well as for practicing engineers. The book provides a hands-on approach to EFA, which helps the user to develop an understanding of potential failure situations, to explore the consequences, and to better understand how to solve similar problems; it also helps users to develop their own techniques for most other engineering failure problems. The authors include a section on technical report writing, which will assist failure investigators in getting their findings across. They also present simple engineering calculations that may serve as illustrative examples, and typical problems and solutions are included at the end of each chapter.

Handbook of Materials Failure Analysis with Case Studies from the Oil and Gas Industry May 19 2022 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

Handbook of Case Histories in Failure Analysis, Volume 2 Mar 25 2020 Presents more than 120 expert failure analysis case histories from industries including automotive, aerospace, utilities, oil and gas, petrochemical, biomedical, ground transportation, off-highway vehicles, and more. Volume 2 builds on the tremendous acceptance of Volume 1 by the failure analysis community. The two volumes can also be purchased as a set for a special discounted price. Learn how others have investigated and solved failures in various industries involving a wide range of failure modes, materials, and analysis techniques.

Corrosion Failures Jul 09 2021 Provides corrosion basics in a lucid manner to students and working professionals and over 80 corrosion-failure analysis case studies Correlates Failure Analysis with Corrosion Science Exclusively provides corrosion-related failure analysis case histories in one place in a convenient format One-stop shop for both science and real time occurrence of the phenomenon of corrosion Full coverage of all MOC, Materials of Construction, used for process equipments Simple but Lucid presentation of Failure Analysis procedure

Handbook of Materials Failure Analysis Dec 14 2021 Handbook of Materials Failure Analysis: With Case Studies from the Construction Industry provides a thorough understanding of the reasons materials fail in certain situations, covering important scenarios including material defects, mechanical failure due to various causes, and improper material selection and/or corrosive environment. 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. Failure can occur for several reasons, including: materials defects-related failure, materials design-related failure, or corrosion-related failures. The suitability of the materials to work in a definite environment is an important issue. The results of these failures can be catastrophic in the worst case scenarios, causing loss of life. This important reference covers the most common types of materials failure, and provides possible solutions. Provides the most up-to-date and balanced coverage of failure analysis, combining foundational knowledge and current research on the latest developments and innovations in the field Offers an ideal accompaniment for those interested in materials forensic investigation, failure of materials, static failure analysis, dynamic failure analysis, and fatigue life prediction Presents compelling new case studies from key industries to demonstrate concepts and to assist users in avoiding costly errors that could result in catastrophic events

Successes and Failures of Knowledge Management Apr 25 2020 Successes and Failures of Knowledge Management highlights examples from across multiple industries, demonstrating where the practice has been implemented well—and not so well—so others can learn from these cases during their knowledge management journey. Knowledge management deals with how best to leverage knowledge both internally and externally in organizations to improve decision-making and facilitate knowledge capture and sharing. It is a critical part of an organization's fabric, and can be used to increase innovation, improve organizational internal and external effectiveness, build the institutional memory, and enhance organizational agility. Starting by establishing KM processes, measures, and metrics, the book highlights ways to be successful in knowledge management institutionalization through learning from sample mistakes and successes. Whether an organization is already implementing KM or has been reluctant to do so, the ideas presented will stimulate the application of knowledge management as part of a human capital strategy in any organization. Provides keen insights for knowledge management practitioners and educators Conveys KM lessons learned through both successes and failures Includes straightforward, jargon-free case studies and research developed by the leading KM researchers and practitioners across industries

Failure Analysis Case Studies III Aug 10 2021 This volume is the third in the series of sourcebooks on Failure Analysis and Structural Integrity published by Elsevier. It comprises 35 case studies describing detailed analyses of real engineering failures and structural integrity problems chosen from volumes 7, 8 and 9 of the Elsevier journal Engineering Failure Analysis. It is an essential reference, helping people avoid or analyse engineering failures, design and manufacture for greater safety and economy, and assess operating, maintenance and fitness-for-purpose procedures.

Why Projects Fail Jul 29 2020 "Why Projects Fail" offers an informative, entertaining read that is guaranteed to increase your understanding what went wrong with the projects that failed. Was the project well conceived? Was the budgeting adequate? Did it fail because of circumstances that were impossible to anticipate, or were there simply gaps in the planning process? Learn in this informative, interesting read that will help you make sure your next project succeed. "Why Projects Fail" presents a balanced analysis of its subject, alternating stories of major corporate and government projects that failed, along with a breakdown of what went wrong. The illuminating stories come from a variety of industries, with a shocking list of familiar companies and organizations. What makes this book unique is the author's delightfully straightforward account of the specific ways that caused problems. The book is full of charts, graphs and pictures. Project management best practices to increase your success rate Suggestions and

recommendations for avoiding common pitfalls
Case studies and analysis of failed projects across all industries
Lots of numbers, stats and data presented in an easy to digest way
Quotes from outstanding project management and business gurus
Do you ever wonder why the projects keep failing without obvious reason? Would you like to learn why projects fail and how to avoid failure? "Why Projects Fail" book explains why some projects fail while the other succeed. The book explores statistics, analyses, case studies and lessons learned from known project failures, along with facts and arguments. It goes over the main causes of failed projects, which can include going over budget, poor planning, lack of communication and other reasons. Do you want to improve chances of your project to succeed? Would like to avoid most common project management pitfalls and causes of project failure? Would you like to avoid devastating results of failed projects: negative career impact, loss of money, time and resources for the company? "Why Projects Fail" is going to give you something that will completely change the way you're running your projects. "Why Projects Fail" will tremendously improve your project management processes and procedures so your project won't fail but succeed. It's crucial to be aware of potential pitfalls before the project starts and recognize when things might be going wrong during project execution so you can get it back on track. "Why Projects Fail": What is covered? Failure rate and main elements of project's failure
List of failed project incl. year, company name, cost, outcome
Reasons for project's failure
Five case studies including NASA, FBI and Government of Canada
Proper project management: communication, stakeholder, risk, resources
How to prevent project's failure

CRISIS MANAGEMENT: THE ART OF SUCCESS & FAILURE Jan 03 2021 No matter where we work or what we do, there is no stopping the fact that, at some point in our lives, we will encounter a crisis. How an individual responsible for dealing with these types of situations reacts is ultimately the deciding factor as to whether or not they come out safely on the other side. Crisis Management: The Art of Success and Failure focuses on different types of crises, symptoms, and models that recurrently threaten business and political environments. Pulling from no better teacher than history itself, Crisis Management is broken into 30 case studies that provide analysis and theoretical approaches that explore both successful and unsuccessful examples of management in the midst of crisis. While focusing primarily on business and politics, Crisis Management is a powerful tool for all readers who wish to understand how to better tackle crises when they arise. Learning how to remain calm and deal with critical situations is a skill that can be learned and mastered.

Failure Case Studies Jul 21 2022 "This book gives examples of failed civil engineering projects and the lessons learned from the failures. The case studies were gathered by ASCE's Forensic Engineering Division"--

Failures in Concrete Structures Jun 20 2022 Some lessons are only learned from mistakes but, it s much cheaper to learn from someone else s mistakes than to have to do so from your own. Drawing on over fifty years of working with concrete structures, Robin Whittle examines the problems which he has seen occur and shows how they could have been avoided. The first and largest part of the book tells the stories of a number of cases where things have gone wrong with concrete structures. Each case is analyzed to identify its cause and how it might have been prevented. It then looks at how failures in structural modelling can lead to big problems if they are not identified before construction is undertaken. Beyond this it examines how contract arrangements can encourage or prevent problems in the designing and building processes. It concludes with an examination of the role research and development in preventing failures. By identifying the differences between shoddy economizations and genuine efficiency savings, this book offers savings in the short term which won t be at the expense of a structure s long-term performance. Invaluable reading if you re designing or building concrete structures and want to avoid problems which could be expensive or embarrassing further down the line. "

Strategies in Failure Management Oct 12 2021 This book offers a comprehensive overview of failure in business, management and consulting. It features contributions by experts from diverse fields, who share unique insights from their real-life experiences. Readers will find perspectives from

leadership, project management, change management, innovation management, human resource management, counseling, restructuring, entrepreneurship and sports. Each chapter combines the latest empirical findings with relevant case studies, making for a unique book that offers a fascinating exploration of the largely unexplored area of setbacks, pitfalls, flops and disappointments in the business world.

Failing in the Field Feb 22 2020 A revealing look at the common causes of failures in randomized control experiments during field research—and how to avoid them All across the social sciences, from development economics to political science, researchers are going into the field to collect data and learn about the world. Successful randomized controlled trials have brought about enormous gains, but less is learned when projects fail. In *Failing in the Field*, Dean Karlan and Jacob Appel examine the taboo subject of failure in field research so that researchers might avoid the same pitfalls in future work. Drawing on the experiences of top social scientists working in developing countries, this book describes five common categories of failures, reviews six case studies in detail, and concludes with reflections on best (and worst) practices for designing and running field projects, with an emphasis on randomized controlled trials. *Failing in the Field* is an invaluable “how-not-to” guide to conducting fieldwork and running randomized controlled trials in development settings.

Engineering Materials 3 Apr 06 2021 Aims to provide undergraduate and graduate students with a source of practical information on the design implications of material properties, building on the basic material contained in "Engineering Materials 1 and 2". The text presents a series of case studies drawn from real situations.

Failure Case Studies in Civil Engineering Sep 23 2022 This report provides short descriptions of 50 real-world examples of performance failures designed specifically for classroom use.

Failure Case Studies Feb 28 2023 "This book gives examples of failed civil engineering projects and the lessons learned from the failures. The case studies were gathered by ASCE's Forensic Engineering Division"--

Metallurgical Failure Analysis Feb 16 2022 *Metallurgical Failure Analysis: Techniques and Case Studies* explores how components fail and what measures should be taken to avoid future failures. The book introduces the subject of failure analysis; covers the fundamentals and methodology of failure analysis, including fracture and fractography of metals and alloys and the tools and techniques used in a failure investigation; examines 37 case studies on high performance engineering components; features experimental results comprised of visual-, fractographic-, or metallographic-examination, hardness measurements and chemical analysis; includes illustrations and evidence obtained through test results to enhance understanding; and suggests suitable remedial measures when possible. The various case studies are classified according to the major causes of failures. The case studies pertain to: Improper Material Selection, Manufacturing Defects, Casting Defects, Overload, Fatigue, Corrosion Induced Failures, Hydrogen Embrittlement and Stress Corrosion Cracking, Wear and Elevated Temperature Failures. The book contains information gathered over three decades of the author's experience handling a variety of failure cases and will go a long way toward inspiring practicing failure analysts. The book is designed for scientists, metallurgists, engineers, quality control inspectors, professors and students alike. Explores the fundamentals and methodology of failure analysis Examines the major causes of component failures Teaches a systematic approach to investigation to determine the cause of a failure Features 37 case studies on high performance engineering components

Failure Analysis Case Studies II Dec 26 2022 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.

Handbook of Materials Failure Analysis with Case Studies from the Aerospace and Automotive Industries Oct 24 2022 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

Interdisciplinary and Transdisciplinary Failures Nov 01 2020 Unlike other volumes in the current literature, this book provides insight for interdisciplinary and transdisciplinary researchers and practitioners on what doesn't work. Documenting detailed case studies of project failure matters, not only as an illustration of experienced challenges but also as projects do not always follow step-by-step protocols of preconceived and theorised processes. Bookended by a framing introduction by the editors and a conclusion written by Julie Thompson Klein, each chapter ends with a reflexive section that synthesizes lessons learned and key take-away points for the reader. Drawing on a wide range of international case studies and with a strong environmental thread throughout, the book reveals a range of failure scenarios for interdisciplinary and transdisciplinary projects, including: • Projects that did not get off the ground; • Projects that did not have the correct personnel for specified objectives; • Projects that did not reach their original objectives but met other objectives; • Projects that failed to anticipate important differences among collaborators. Illustrating causal links in real life projects, this volume will be of significant relevance to scholars and practitioners looking to overcome the challenges of conducting interdisciplinary and transdisciplinary research.

Project Recovery Jan 27 2023 Best practices for picking up the pieces when projects fail There are plenty of books available offering best practices that help you keep your projects on track, but offer guidance on what to do when the worst has already happened. Some studies show that more than half of all large-scale project fail either fail completely, or at least miss targeted budget and scheduling goals. These failures cost organizations time, money, and labor. Project Recovery offers wise guidance and real-world best practices for saving failed projects and recovering as much value as possible from the wreckage. Since failing project cannot be managed using the same lifecycle phases employed with succeeding projects, most

project management professionals are unprepared to tackle the challenge of project recovery. This book presents valuable case studies and a recovery project lifecycle to help project managers identify and respond effectively to a troubled project. Includes case studies and best practices for saving failing projects or recovering projects that have already failed Written by experience project manager Howard Kerzner, the author of Project Management Best Practices, Third Edition Features proven techniques for performing project health checks and determining the degree of failure and the recovery options available Includes a new recovery lifecycle that includes phases and checklists for turning around failing projects With comprehensive case studies, checklists, worksheets, and cross listings to the appropriate project management body of knowledge, Project Recovery offers a much needed lifeline for managers facing the specter of failure.

Failed Bridges Jan 23 2020 When bridges fail, often with loss of human life, those involved may be unwilling to speak openly about the cause. Yet it is possible to learn from mistakes. The lessons gained lead to greater safety and are a source of innovation. This book contains a systematic, unprecedented overview of more than 400 bridge failures assigned to the time of their occurrence in the bridges' life cycle and to the releasing events. Primary causes are identified. Many of the cases investigated are published here for the first time and previous interpretations are shown to be incomplete or incorrect. A catalogue of rules that can help to avoid future mistakes in design analysis, planning and erection is included. A lifetime's work brilliantly compiled and courageously presented - a wealth of knowledge and experience for every structural engineer.

Failure of Plastics and Rubber Products Sep 11 2021 Plastics and rubbers together make up the most adaptable and varied class of materials available to product designers. They may be transparent or opaque, rigid or flexible, lightweight, insulating, and weatherproof. They are used in almost every industry, and in every part of the home. Applications range from the humble hot water bottle to the sheathing on a high voltage cable, and from a simple scrubbing brush to a tank for storing hydrochloric acid. Products may be disposable (e.g. packaging goods) or intended to last for decades, such as a buried sewage pipe. However, it is this very diversity which makes materials selection so difficult, and appropriate design so important. Indeed the one thing that all these particular products have in common is their presence in this book of failures. Failures due to degradation may result from exposure to the weather or an aggressive operating environment. Alternatively they may be caused by the introduction of an external agent unforeseen by the product designer. They may be rapid or very slow, and they may result from a combination of factors. In this book Dr. Wright describes the following mechanisms of polymer degradation, and then illustrates each failure mechanism with a number of case studies: Thermo-oxidation, Photo-oxidation, Degradation due to ionising radiation, Chemical attack, Environmental stress cracking, Other miscellaneous effects, including treeing, electrochemical degradation and biodegradation. Many of the case studies are based on Dr. Wright's own experiences whilst working at Rapra. In each case he describes the circumstances of the failure, and discusses both the consequences of the failure and the lessons that may be learned from it. Most of the failed products are familiar to us all, and his style is both readable and informative. Photographs are included where available. The book will be essential reading for designers, engineers, product specifiers and forensic engineers. Materials suppliers and processors will also benefit from the pragmatic analysis and advice it contains. It will also be of value to all students of polymer science and technology, providing an essential insight into the practical application of plastics and rubbers and the potential problems. Finally, it will be of interest to a much broader readership, including anyone who ever wondered why things break, and it should become a standard reference work in all technical libraries. This book was written with the support of the UK Department of Trade and Industry. It is intended to raise awareness of the causes and consequences of polymer product failures, in order to reduce the future incidences of such failures, and their considerable costs to industry

To Engineer is Human Dec 22 2019 "Though ours is an age of high technology, the essence of what engineering is and what engineers do is not

common knowledge. Even the most elementary of principles upon which great bridges, jumbo jets, or super computers are built are alien concepts to many. This is so in part because engineering as a human endeavor is not yet integrated into our culture and intellectual tradition. And while educators are currently wrestling with the problem of introducing technology into conventional academic curricula, thus better preparing today's students for life in a world increasingly technological, there is as yet no consensus as to how technological literacy can best be achieved. " I believe, and I argue in this essay, that the ideas of engineering are in fact in our bones and part of our human nature and experience. Furthermore, I believe that an understanding and an appreciation of engineers and engineering can be gotten without an engineering or technical education. Thus I hope that the technologically uninitiated will come to read what I have written as an introduction to technology. Indeed, this book is my answer to the questions 'What is engineering?' and 'What do engineers do?'" - Henry Petroski, To Engineer is Human

After-School Centers and Youth Development May 27 2020 This book examines after-school programs in light of their explosive growth in recent years. In the rush to mount programs, there is a danger of promoting weak ones of little value and failing to implement strong ones adequately. But what is quality and how can it be achieved? This book presents findings from an intensive study of three after-school centers that differed dramatically in quality. Drawing from 233 site visits, the authors examine how - and why - young people thrive in good programs and suffer in weak ones. The book features engaging, in-depth case studies of each of the three centers and of six youths, two from each center. Written in a highly accessible style for academics, youth workers, after-school program leaders and policy makers, the study breaks new ground in highlighting the importance of factors such as collective mentoring, synergies among different programs and activities, and organizational culture and practices.