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KEY=INVESTIGATING - KIMBERLY HERNANDEZ

DESIGN THINKING RESEARCH

INVESTIGATING DESIGN TEAM PERFORMANCE

Springer Nature Extensive research conducted by the Hasso Plattner Design Thinking Research Program at Stanford University in Palo Alto, California, USA, and the Hasso Plattner Institute in Potsdam, Germany, has yielded valuable insights on why and how design thinking works. The participating researchers have identified metrics, developed models, and conducted studies, which are featured in this book, and in the previous volumes of this series. Offering readers a closer look at design thinking, and its innovation processes and methods, this volume addresses the new and growing field of neurodesign, which applies insights from the neurosciences in order to improve design team performance. Thinking and devising innovations are inherently human activities – and so is design thinking. Accordingly, design thinking is not merely the result of special courses or of being gifted or trained: it is a way of dealing with our environment and improving techniques, technologies and life in general. As such, the research outcomes compiled in this book are intended to inform and provide inspiration for all those seeking to drive innovation – be they experienced design thinkers or newcomers.

INVESTIGATING THE SOCIAL WORLD

THE PROCESS AND PRACTICE OF RESEARCH

Pine Forge Press The most successful social research text to have been published in a generation has been updated and revised in this new Sixth Edition! This innovative, up-to-date, and popular text makes research come alive through research stories that illustrate the methods presented in each chapter, with hands-on exercises to help students learn by doing. Author Russell K. Schutt helps readers connect technique and substance, understand research methods as an integrated whole, appreciate the value of both qualitative and quantitative methodologies, and make ethical research decisions. **New to the Sixth Edition:** Updates and Revisions: Research examples have been updated throughout the text, with many that have been added from international researchers. All end-of-chapter exercise sets have been updated. Techniques for searching and reviewing the literature and Web sites have been updated and more guidance is provided on writing the literature review. In addition, many chapters have been streamlined and reorganized for greater clarity, including those on measurement and causation and research design. **Secondary Data Analysis and Content Analysis:** A new chapter introduces the logic and limitations of secondary data analysis, available data sources, procedures for using ICPSR datasets, the Human Relations Area Files, and more information on content analysis. **Qualitative Data Analysis:** New sections have been added on conversation analysis, ethnomethodology, case-oriented understanding, and visual sociology. A special section on computer-assisted qualitative data analysis introduces the HyperRESEARCH software that accompanies the text. **Theories and Philosophies for Research:** A revised and streamlined chapter uses international research on immigration and ethnic conflict to illustrate functionalism, conflict theory, and symbolic interactionism and to contrast positivist and interpretivist research philosophies. Unique among methods texts, this chapter emphasizes the importance of social theory and research philosophy as a foundation for social research. **Research Ethics:** New sections have been added in some chapters and the discussion of the role of the IRB in the third chapter has been expanded. **Accompanied by High-Quality Ancillaries!** **Instructors' Resource CD-ROM:** provides test questions, PowerPoint slides for lectures, suggested assignments, and a review of course organization options. **Student Study Site at www.pineforge.com/isw5:** includes journal articles, flash cards for practicing terminology, online quizzes, and much more! **Now with interactive exercises on the study site (from the student CD) - for easier access and use by students** **Student Resources CD:** bundled with the book, contains wide-ranging data sets and interactive exercises to help students master concepts and techniques. **HyperRESEARCH software:** includes software for qualitative data analysis.

EFFECTIVE DESIGN TEAM COMPOSITION USING INDIVIDUAL AND GROUP COGNITIVE ATTRIBUTES

Engineering design is typically a team effort. Design teams frequently need to push technical boundaries to solve the most relevant challenges faced by our society. A significant area of research across multiple fields of investigation, including engineering, is the understanding and use of an individual's cognitive attributes in the process of assembling productive teams. This research proposes an approach to assembling an engineering design team by first defining the desirable cognitive attributes in the team members. Subsequently, based on individual cognitive profile assessments along these attributes, an exhaustive list of possible design teams is investigated based on their cumulative attribute level. We compare the performance of two teams predicted to perform at different levels, and our results verify the differences between the observations of team interactions and the quality of designs produced. In addition to self-assessments, we also investigate the brain activity of the respondents using EEG (electroencephalography) to evaluate performance in an individual and a team setting. This analysis intends to highlight the characteristics of an individual's brain activity under different circumstances to reveal if these characteristics contribute to the success of a design team. EEG data revealed observations such as correlation between raw amplitude and level of team contribution, a higher variation in the channel power spectral density during individual versus team tasks, and a degradation of alpha activity moving from individual to group work. The results of this research can guide organizations to form teams with the necessary cognitive attributes to achieve the optimum design solution.

PROCEEDINGS OF THE ... ASME DESIGN ENGINEERING TECHNICAL CONFERENCES

COMMERCE BUSINESS DAILY

17TH INTERNATIONAL CONFERENCE ON DESIGN THEORY AND METHODOLOGY

POWER TRANSMISSION AND GEARING CONFERENCE

DESIGN THINKING RESEARCH

BUILDING INNOVATORS

Springer Design thinking as a user-centric innovation method has become more and more widespread during the past years. An increasing number of people and institutions have experienced its innovative power. While at the same time the demand has grown for a deep, evidence-based understanding of the way design thinking functions. This challenge is addressed by the Design Thinking Research Program between Stanford University, Palo Alto, USA and Hasso Plattner Institute, Potsdam, Germany. Summarizing the outcomes of the 5th program year, this book imparts the scientific findings gained by the researchers through their investigations, experiments and studies. The method of design thinking works when applied with diligence and insight. With this book and the underlying research projects, we aim to understand the innovation process of design thinking and the people behind it. The contributions ultimately center on the issue of building innovators. The focus of the investigation is on what people are doing and thinking when engaged in creative design innovation and how their innovation work can be supported. Therefore, within three topic areas, various frameworks, methodologies, mind sets, systems and tools are explored and further developed. The book begins with an assessment of crucial factors for innovators such as empathy and creativity, the second part addresses the improvement of team collaboration and finally we turn to specific tools and approaches which ensure information transfer during the design process. All in all, the contributions shed light and show deeper insights how to support the work of design teams in order to systematically and successfully develop innovations and design progressive solutions for tomorrow.

AN INVESTIGATION INTO RESILIENT FIRE ENGINEERING BUILDING DESIGN

As an engineering discipline within the United Kingdom, fire engineering is relatively young. It has been accepted as an alternative to traditional prescriptive means of meeting the functional requirements of the Building Regulations since the publication of the 1985 edition of Approved Document B, which was one of a series issued to provide practical guidance on the requirements of the Building Regulations for England and Wales. It deals specifically with fire safety requirements for building work. Performance-based fire engineering design methods have facilitated architectural design freedoms and supported creative construction. This research has established that for a successful and holistic fire engineering strategy to be developed; The end-user client should describe from the outset what they want their building or facility to achieve, and there should be an agreed process for this to happen; Commercial property insurers should be consulted and exploited as a useful and intelligent resource to the design team; and Fire engineering practitioners should fulfil their role as advisers to the architect, or building design team, in order to achieve the agreed objectives. However, it has become evident that since fire engineering has become more established, it is clear that we are far from this ideal situation. Significant concerns have been raised regarding various elements of the design process including the ability to consider aspects other than life safety. Within this discourse, the author has outlined their research investigating how performance-based fire engineering techniques are

used within building design. The literature review explores key concepts of fire engineering including definitions and benefits etc., and also describes concerns regarding the motivations for applying fire engineering techniques to building design. Survey-based research suggests that greater input is required from commercial property insurers at the building design stage in order to champion property protection and business resilience objectives. A case-study investigation, however, concluded that for a number of reasons, it is impractical to expect the insurer to influence the design team to the extent desired. Therefore, in response to these various research activities, the concept of business impact analysis has been introduced and developed by the author to ensure that property protection and business continuity objectives are at the forefront of new building design, whether the insurer is involved in the process or not. In order to help consulting fire engineers and architectural design teams incorporate business protection objectives in their fire safety designs, there is a requirement for the established British Standard, which defines a fire engineering procedure, to be enhanced. The author was instrumental in acquiring support from the Technical Committee within BSI responsible for maintaining the Standard, and PD 7974-8 Application of fire safety engineering principles to the design of buildings- Part 8: Property protection, mission continuity and resilience (British Standards institution, 2012) has been developed and published, led by the author. This significant new Standard embeds the use of a business impact analysis as an integral part of the qualitative design review process. Without following the BIA process as described in the draft document PD7974-8, business resilience objectives may be missed within the building design phase, allowing an inferior package of fire protection measures to be incorporated into building developments. For the first time, this new document will enable the building designer to be fully cognisant of their client's critical processes and the resources required to support these processes. It will therefore enable the appropriate fire safety measures to be incorporated into the building design to enhance business resilience. Initial evaluations of this guide through various stakeholder dissemination activities and a public consultation process has been positive. The potential concerns that the evaluations have raised regarding the role of the fire engineer throughout the building design phase, and regarding the prevalence of BIA within organisations will be addressed in the guide and the way it is publicised upon its launch.

THE INVESTIGATION OF THE WORLD TRADE CENTER COLLAPSE

FINDINGS, RECOMMENDATIONS, AND NEXT STEPS : HEARING BEFORE THE COMMITTEE ON SCIENCE, HOUSE OF REPRESENTATIVES, ONE HUNDRED NINTH CONGRESS, FIRST SESSION, OCTOBER 26, 2005

GUIDE FOR CONDUCTING FORENSIC INVESTIGATIONS OF HIGHWAY PAVEMENTS (WITH SUPPLEMENTAL MATERIAL ON CD-ROM)

Transportation Research Board "TRB's National Cooperative Highway Research Program Report 747: Guide for Conducting Forensic Investigations of Highway Pavements explores a process for conducting forensic investigations of pavements that is designed to help understand the reasons behind premature failures or exceptionally good performance. The process also allows for the collection of data for use in developing or calibrating performance-prediction models. The report includes example forms and checklists for use during the conduct of an investigation. These forms can be modified to suit the particular requirements and procedures for the agency. The example forms are included with the print version of the report in CD-ROM format." --Publisher description.

TFX CONTRACT INVESTIGATION

HEARINGS BEFORE THE PERMANENT SUBCOMMITTEE ON INVESTIGATIONS OF THE COMMITTEE ON GOVERNMENT OPERATIONS, UNITED STATES SENATE, EIGHTY-EIGHTH CONGRESS, FIRST SESSION ...

OPPORTUNITIES IN NEUROSCIENCE FOR FUTURE ARMY APPLICATIONS

National Academies Press Advances and major investments in the field of neuroscience can enhance traditional behavioral science approaches to training, learning, and other applications of value to the Army. Neural-behavioral indicators offer new ways to evaluate how well an individual trainee has assimilated mission critical knowledge and skills, and can also be used to provide feedback on the readiness of soldiers for combat. Current methods for matching individual capabilities with the requirements for performing high-value Army assignments do not include neuropsychological, psychophysiological, neurochemical or neurogenetic components; simple neuropsychological testing could greatly improve training success rates for these assignments. Opportunities in Neuroscience for Future Army Applications makes 17 recommendations that focus on utilizing current scientific research and development initiatives to improve performance and efficiency, collaborating with pharmaceutical companies to employ neuropharmaceuticals for general sustainment or enhancement of soldier performance, and improving cognitive and behavioral performance using interdisciplinary approaches and technological investments. An essential guide for the Army, this book will also be of interest to other branches of military, national security and intelligence agencies, academic and commercial researchers, pharmaceutical companies, and others interested in applying the rapid advances in neuroscience to the performance of individual and group tasks.

ON THE PRACTICE OF SAFETY

John Wiley & Sons Explains how to implement the best safety practices and why they work Reviews from the Third Edition "An excellent piece of work." —Safety Health Practitioner (SHP) "A useful fountain of knowledge." —Quality World "This is a book to be read now for its educational value and also to be kept on the shelf for easy future reference." —Chemistry International The Fourth Edition of On the Practice of Safety makes it possible for readers to master all the core subjects and practices that today's safety professionals need to know in order to provide optimal protection for their organizations' property and personnel. Like the previous editions, each chapter is a self-contained unit, making it easy for readers to focus on select topics of interest. Thoroughly revised and updated, this Fourth Edition reflects the latest research and safety practice standards. For example, author Fred Manuele has revised the design chapters to reflect the recently adopted American National Standard on Prevention through Design. In addition, readers will find new chapters dedicated to: Management of change and pre-job planning Indirect-to-direct accident cost ratios Leading and lagging indicators Opportunities for safety professionals to apply lean concepts Role of safety professionals in implementing sustainability Financial management concepts and practices that safety professionals should know Many chapters are highly thought-provoking, questioning long-accepted concepts in the interest of advancing and improving the professional practice of safety. Acclaimed by both students and instructors, On the Practice of Safety is a core textbook for both undergraduate and graduate degree programs in safety. Safety professionals should also refer to the text in order to update and improve their safety skills and knowledge.

HUMAN CENTERED DESIGN

FIRST INTERNATIONAL CONFERENCE, HCD 2009, HELD AS PART OF HCI INTERNATIONAL 2009, SAN DIEGO, CA, USA, JULY 19-24, 2009 PROCEEDINGS

Springer Science & Business Media The 13th International Conference on Human-Computer Interaction, HCI International 2009, was held in San Diego, California, USA, July 19-24, 2009, jointly with the Symposium on Human Interface (Japan) 2009, the 8th International Conference on Engineering Psychology and Cognitive Ergonomics, the 5th International Conference on Universal Access in Human-Computer Interaction, the Third International Conference on Virtual and Mixed Reality, the Third International Conference on Internationalization, Design and Global Development, the Third International Conference on Online Communities and Social Computing, the 5th International Conference on Augmented Cognition, the Second International Conference on Digital Human Modeling, and the First International Conference on Human Centered Design. A total of 4,348 individuals from academia, research institutes, industry and governmental agencies from 73 countries submitted contributions, and 1,397 papers that were judged to be of high scientific quality were included in the program. These papers - dress the latest research and development efforts and highlight the human aspects of the design and use of computing systems. The papers accepted for presentation thoroughly cover the entire field of human-computer interaction, addressing major advances in knowledge and effective use of computers in a variety of application areas.

TFX CONTRACT INVESTIGATION

HEARINGS BEFORE THE PERMANENT SUBCOMMITTEE ON INVESTIGATIONS OF THE COMMITTEE ON GOVERNMENT OPERATIONS, UNITED STATES SENATE, EIGHTY-EIGHTH CONGRESS, FIRST SESSION ...

THE ORGANIZATION AND MANAGEMENT OF CONSTRUCTION

SHAPING THEORY AND PRACTICE; VOLUME ONE; MANAGING THE CONSTRUCTION ENTERPRISE

Taylor & Francis The proceedings of the CIB W65 Symposium on the Organization and Management of Construction conference are presented here and in the companion volumes as state-of-the-art papers documenting research and innovative practice in the field of construction. The volumes cover four broad themes: business management, project management, risk management, IT development and applications. Each volume is organized to provide easy reference so that the practitioner can speedily extract up to date information and knowledge about the global construction industry. Managing the Construction Enterprise (Volume One): Covers the firm and its business environment, markets and marketing, human resource management strategic planning, and quality management. Managing the Construction Project (Volume Two): focuses upon productivity, procurement, international projects and human issues in relation to management performance of construction organisations. Managing Risk (Volume Two): incorporates discussion of risk away from regulation by government and those safety risks inherent in the construction process. Managing Construction Information (Volume Three, published in conjunction with Construct IT Centre of Excellence): incorporates material on information systems and methods, application of IT to the design and construction processes and how IT theory and applications are best transmitted to students and practitioners. The work represents a collation of wide ranging ideas and theory about construction and how research has contributed to the development of the industry on a global application of research to the problems of the construction industry.

RESEARCH METHODS IN PSYCHOLOGY

INVESTIGATING HUMAN BEHAVIOR

SAGE Publications The Second Edition of Paul G. Nestor and Russell K. Schutt's successful and unique *Research Methods in Psychology: Investigating Human Behavior* draws from substantive research stories to illustrate how research is presented while systematically unifying the entire research process within a conceptual framework. This accessible text examines engaging research studies and examples, considering research ethics throughout. "This is a great text that emphasizes the important concepts within research methods. The resources are excellent; they incorporate up-to-date research and technology and introduce the student to empirical articles, and the information is presented in a way that challenges the student to apply the material." —Maria Pacella, Kent State University "The text is comprehensive. It covers a wide variety of information without being overwhelming. This is a very good textbook for an introductory course in research methods. I like that its focus is on psychological research specifically." —Angela M. Heads, Prairie View A&M University

NASA HEAVY LIFT ROTORCRAFT SYSTEMS INVESTIGATION

HUMAN-COMPUTER INTERACTION SYMPOSIUM

IFIP 20TH WORLD COMPUTER CONGRESS, PROCEEDINGS OF THE 1ST TC 13 HUMAN-COMPUTER INTERACTION SYMPOSIUM (HCIS 2008), SEPTEMBER 7-10, 2008, MILANO, ITALY

Springer The IFIP World Computer Congress (WCC) is one of the most important conferences in the area of computer science and a number of related Human and Social Science disciplines at the worldwide level and it has a federated structure, which takes into account the rapidly growing and expanding interests in this area. Human-Computer Interaction is now a mature and still dynamically evolving part of this area, which is represented in IFIP by the Technical Committee 13 on HCI. We are convinced that in this edition of WCC, which takes place for the first time in Italy, it will be interesting and useful to have a Symposium on Human-Computer Interaction in order to present and discuss a number of contributions in this field. There has been increasing awareness among designers of interactive systems of the importance of designing for usability, but we are still far from having products that are really usable, and usability can mean different things depending on the application domain. We are all aware that too many users of current technology feel often frustrated because computer systems are not compatible with their abilities and needs with existing work practices. As designers of tomorrow technology, we have the responsibility of creating computer artefacts that would permit better user experience with the various computing devices, so that users may enjoy more satisfying experiences with information and communications technologies.

NORTH AMERICAN TUNNELING 2022 PROCEEDINGS

Society for Mining, Metallurgy & Exploration Your timely source for more cost-effective and less disruptive solutions to your underground infrastructure needs. The North American Tunneling Conference is the premier biennial tunneling event for North America, bringing together the brightest, most resourceful, and innovative minds in the tunneling industry. It underscores the important role that the industry plans in the development of underground spaces, transportation and conveyance systems, and other forms of sustainable underground infrastructure. With every conference, the number of attendees and breadth of topics grows. The authors—expert and leaders in the industry—share the latest case histories, expertise, lessons learned, and real-world applications from around the globe. Crafted from a collection of 92 papers presented at the conference, this book takes you deep inside the projects. It includes sections on technology, planning, design, and case histories.

PROGRESS REPORT ON THE SCIENTIFIC INVESTIGATION PROGRAM FOR THE NEVADA YUCCA MOUNTAIN SITE

DESIGN - BUILD - RUN

APPLIED PRACTICES AND PRINCIPLES FOR PRODUCTION READY SOFTWARE DEVELOPMENT

John Wiley & Sons This unique and critical book shares no-fail secrets for building software and offers tried-and-true practices and principles for software design, development, and testing for mission-critical systems that must not fail. A veteran software architect walks you through the lifecycle of a project as well as each area of production readiness—functionality, availability, performance and scalability, operability, maintainability, and extensibility, and highlights their key concepts.

THE OXFORD HANDBOOK OF LEADERSHIP

Oxford University Press This book both acknowledges the complexity emerging from the three main components of leadership--the leader, the led, and the environment--while providing a sound, foundational structure in which the complexity of this area of study can be better understood.

ANNUAL DEPARTMENT OF DEFENSE BIBLIOGRAPHY OF LOGISTICS STUDIES AND RELATED DOCUMENTS

AN INVESTIGATION OF THE EFFECT OF AFTER-ACTION REVIEWS ON TEAMS' PERFORMANCE-EFFICACY RELATIONSHIPS

Performance and efficacy are reciprocally causal; however, the effect of performance on subsequent perceptions of efficacy has received little attention, especially in the context of team training. In addition, the moderating effect of feedback accuracy on the relationship between team performance and team-efficacy is largely unexplored. As such, the objective of the present study was to investigate the relationship between team performance and team-efficacy in the context of after-action reviews (AARs). Specifically, this study examined the conjoint influence of (a) the accuracy of performance feedback available to trainees during AARs, and (b) time on the predictive validity of team performance on team-efficacy. Data were obtained from 492 undergraduate students assigned to 123 teams in a 5 hr team training protocol using a 3 (training condition: non-AAR, versus subjective AAR, versus objective AAR) x 3 (sessions) repeated measures design. Contrary to the first set of hypotheses, the positive relationship between performance and efficacy was strongest for teams trained without AARs and weakest for teams trained using subjective AARs. Although team-efficacy was predicted more strongly by more proximal team performance than by more distal team performance, this pattern of results was found only for teams trained either without AARs or with objective AARs. The predictive validity of performance on efficacy decreased as performance episodes became more proximal among teams trained using subjective AARs. Finally, within-team agreement of team-efficacy ratings decreased over time for teams that engaged in AARs and remained constant over time for teams that did not engage in AARs. The theoretical and practical implications of these findings are discussed. It is anticipated that this research will provide insight into the roles of feedback accuracy and time in the performance-efficacy relationship and provide guidance to researchers and practitioners in effectively integrating AAR design characteristics into team training environments.

RETHINK! PROTOTYPING

TRANSDISCIPLINARY CONCEPTS OF PROTOTYPING

Springer In this book, the authors describe the findings derived from interaction and cooperation between scientific actors employing diverse practices. They reflect on distinct prototyping concepts and examine the transformation of development culture in their fusion to hybrid approaches and solutions. The products of tomorrow are going to be multifunctional, interactive systems - and already are to some degree today. Collaboration across multiple disciplines is the only way to grasp their complexity in design concepts. This underscores the importance of reconsidering the prototyping process for the development of these systems, particularly in transdisciplinary research teams. "Rethinking Prototyping - new hybrid concepts for prototyping" was a transdisciplinary project that took up this challenge. The aim of this programmatic rethinking was to come up with a general concept of prototyping by combining innovative prototyping concepts, which had been researched and developed in three sub-projects: "Hybrid Prototyping" developed new prototyping approaches to validate and evaluate holistically developed systems with their services, infrastructure and business models. "Blended Prototyping" addressed a new technique whereby prototypes for user interfaces of software applications can be generated from hand drawings and immediately be tested. "Beyond Prototyping" examined the issue of the prototype in connection with algorithmically generated design for producing tailor-made products.

INVESTIGATING THE SOCIAL WORLD

THE PROCESS AND PRACTICE OF RESEARCH

SAGE Publications, Incorporated Accompanying CD-ROM contains ... "wide-ranging data sets [SPSS Student Version 14.0], a demo for Hyper RESEARCH qualitative data analysis software, and interactive exercises to help students master concepts and techniques."--P. [4] of cover.

DESIGNING ZERO CARBON BUILDINGS USING DYNAMIC SIMULATION METHODS

Taylor & Francis In addition to the application of fundamental principles that lead to a structured method for zero carbon design of buildings, this considerably expanded second edition includes new advanced topics on multi-objective optimisation; reverse modelling; reduction of the simulation performance gap; predictive control; nature-inspired emergent simulation leading to sketches that become

'alive'; and an alternative economics for achieving the sustainability paradigm. The book features student design work from a Master's programme run by the author, and their design speculation for a human settlement on Mars. Tasks for simple simulation experiments are available for the majority of topics, providing the material for classroom exercise and giving the reader an easy introduction into the field. Extended new case studies of zero carbon buildings are featured in the book, including schemes from Japan, China, Germany, Denmark and the UK, and provide the reader with an enhanced design toolbox to stimulate their own design thinking.

GENDER AND ENGINEERING

STRATEGIES AND POSSIBILITIES

Peter Lang Pub Incorporated This book provides a critical and historical perspective on the ways concepts of 'gender' and 'engineering' have been socially constructed and the relationship to the masculinist image of engineering that has endured over time. To alter this situation, the authors in this volume propose that the focus of analyses move from the under-representation of women in engineering to an investigation of the more relational concept of gender and how gender and gender relations are embedded in the entire engineering enterprise. This book is meant for anyone who recognizes the need to rebel against gender norms and binaries if engineering is to realize its potential as a more inclusive and socially transformative project.

ADVANCES IN SITE INVESTIGATION PRACTICE

PROCEEDINGS OF THE INTERNATIONAL CONFERENCE HELD IN LONDON ON 30-31 MARCH 1995

Thomas Telford These proceedings of the international conference on advances in site investigation practice held in 1995 provide vital information for all professionals involved in the planning, execution, interpretation and applications of site investigations. It draws together the research and experience of many of the most eminent professional engineers and academics, presenting a substantial body of knowledge.

COLUMBIA ACCIDENT INVESTIGATION BOARD REPORT

DURABILITY OF BRIDGE STRUCTURES

PROCEEDINGS OF THE 7TH NEW YORK CITY BRIDGE CONFERENCE, 26-27 AUGUST 2013

CRC Press On Thursday evening, May 23, 2013, the Interstate 5 Bridge over the Skagit River in Washington state collapsed due to impact by an oversize truck, dumping vehicles and people into the water. Fortunately, the bridge is located in a rural area and nobody was killed in the accident, but three people were rescued after their cars plunged into the frigi

INVESTIGATING PERFORMANCE

DESIGN AND OUTCOMES WITH XAPI

Through conversations with Learning & Development professionals about the need for better data, it's become clear that good design is not only about designing for data, but also designing from data. Investigating Performance comprehensively looks at designing to get valuable data needed to understand both course and user performance via data collection and analytics. The authors present tools and techniques to take advantage of the data collected to improve learning approaches throughout the design cycle. Investigating Performance helps the reader establish a non-developer level overview of the xAPI spec to provide a baseline understanding of xAPI and its usage, then moves on to an exploration of data types, strategy, and the basics of data analysis. Learning & Development professionals have the potential to support meaningful, actionable assessment of course design and learner achievement through data collection and analysis. Now it's time to roll up the sleeves and get to work. This book gives a practical overview of the tools, techniques, and strategies needed to get started.

ENHANCING THE EFFECTIVENESS OF TEAM SCIENCE

National Academies Press The past half-century has witnessed a dramatic increase in the scale and complexity of scientific research. The growing scale of science has been accompanied by a shift toward collaborative research, referred to as "team science." Scientific research is increasingly conducted by small teams and larger groups rather than individual investigators, but the challenges of

collaboration can slow these teams' progress in achieving their scientific goals. How does a team-based approach work, and how can universities and research institutions support teams? Enhancing the Effectiveness of Team Science synthesizes and integrates the available research to provide guidance on assembling the science team; leadership, education and professional development for science teams and groups. It also examines institutional and organizational structures and policies to support science teams and identifies areas where further research is needed to help science teams and groups achieve their scientific and translational goals. This report offers major public policy recommendations for science research agencies and policymakers, as well as recommendations for individual scientists, disciplinary associations, and research universities. Enhancing the Effectiveness of Team Science will be of interest to university research administrators, team science leaders, science faculty, and graduate and postdoctoral students.

FEDERAL GUIDELINES FOR DAM SAFETY

ARCHITECTURE & SUSTAINABLE DEVELOPMENT (VOL.2)

27TH INTERNATIONAL CONFERENCE ON PASSIVE AND LOW ENERGY ARCHITECTURE

Presses univ. de Louvain This book of Proceedings presents the latest thinking and research in the rapidly evolving world of architecture and sustainable development through 255 selected papers by authors coming from over 60 countries.

LESSONS AMID THE RUBBLE

AN INTRODUCTION TO POST-DISASTER ENGINEERING AND ETHICS

JHU Press The aftermath of September 11, 2001, brought the subject of engineering-failure forensics to public attention as had no previous catastrophe. In keeping with the engineering profession's long tradition of building a positive future out of disasters, Lessons amid the Rubble uses the collapse of the World Trade Center towers to explore the nature and future of engineering education in the United States. Sarah K. A. Pfatteicher draws on historical and current practice in engineering design, construction, and curricula to discuss how engineers should conceive, organize, and execute a search for the reasons behind the failure of man-made structures. Her survey traces the analytical journey engineers take after a disaster and discusses the technical, social, and moral implications of their work. After providing an overview of the investigations into the collapse of the Twin Towers, Pfatteicher explores six related events to reveal deceptively simple lessons about the engineering enterprise, each of which embodies an ethical dilemma at the heart of the profession. In tying these themes together, Pfatteicher highlights issues of professionalism and professional identity infused in engineering education and encourages an explicit, direct conversation about their meaning. Sophisticated and engagingly written, this volume combines history, engineering, ethics, and philosophy to provoke a deep discussion about the symbolic meaning of buildings and other structures and the nature of engineering.

HEALTH CARE ADMINISTRATION

MANAGING ORGANIZED DELIVERY SYSTEMS

Jones & Bartlett Publishers Health Care Administration: Managing Organized Delivery Systems, Fifth Edition provides graduate and pre-professional students with a comprehensive, detailed overview of the numerous facets of the modern healthcare system, focusing on functions and operations at both the corporate and hospital level. The Fifth Edition of this authoritative text comprises several new subjects, including new chapters on patient safety and ambulatory care center design and planning. Important Notice: The digital edition of this book is missing some of the images or content found in the physical edition.

THE WILEY BLACKWELL HANDBOOK OF THE PSYCHOLOGY OF TEAM WORKING AND COLLABORATIVE PROCESSES

John Wiley & Sons A state-of-the-art psychological perspective on team working and collaborative organizational processes This handbook makes a unique contribution to organizational psychology and HRM by providing comprehensive international coverage of the contemporary field of team working and collaborative organizational processes. It provides critical reviews of key topics related to teams including design, diversity, leadership, trust processes and performance measurement, drawing on the work of leading thinkers including Linda Argote, Neal Ashkanasy, Robert Kraut, Floor Rink and Daan van Knippenberg.

INTEGRATED DESIGN FOR GREEN BUILDING IN CHINA

THE OBSTACLES AND THE WAY FORWARD

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