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The Human Contribution: Unsafe Acts, Accidents and Heroic Recoveries, James Reason. Ashgate, Farnham, Surrey, UK (2008). 295 pp., ?19.95

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Usually the human is considered a hazard - a system component whose unsafe acts are implicated in the majority of catastrophic breakdowns. However there is another perspective that has been relatively little studied in its own right - the human as hero, whose adaptations and compensations bring troubled systems back from the brink of disaster time and again.

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unsafe acts, working conditions, and accidents. The studies also affirm the notion that accidents stem from human contributions through varying failure types. For example, situational failure occurs when workers violate standard operating procedures and

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ignore safety rules due to work pressures. Also, unsafe working conditions are either created by

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professionals in high-consequence environments and for managers of any complex system. The book draws its illustrative material from a wide variety of hazardous domains, with the emphasis on healthcare reflecting the author's focus on patient safety over the last decade. All students of human factors - however seasoned - will also find it an invaluable and thought-provoking read.

This succinct but absorbing book covers the main way stations on James Reason's 40-year journey in pursuit of the nature and varieties of human error. He presents an engrossing and very personal perspective, offering the reader exceptional insights, wisdom and wit as only James Reason can. A Life in Error charts the development of his seminal and hugely influential work from its original focus on individual cognitive psychology through the

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broadening of scope to embrace social, organizational and systemic issues.

Human error is implicated in nearly all aviation accidents, yet most investigation and prevention programs are not designed around any theoretical framework of human error. Appropriate for all levels of expertise, the book provides the knowledge and tools required to conduct a human error analysis of accidents, regardless of operational setting (i.e. military, commercial, or general aviation). The book contains a complete description of the Human Factors Analysis and Classification System (HFACS), which incorporates James Reason's model of latent and active failures as a foundation. Widely disseminated among military and civilian organizations, HFACS encompasses all aspects of human error, including the

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conditions of operators and elements of supervisory and organizational failure. It attracts a very broad readership. Specifically, the book serves as the main textbook for a course in aviation accident investigation taught by one of the authors at the University of Illinois. This book will also be used in courses designed for military safety officers and flight surgeons in the U.S. Navy, Army and the Canadian Defense Force, who currently utilize the HFACS system during aviation accident investigations. Additionally, the book has been incorporated into the popular workshop on accident analysis and prevention provided by the authors at several professional conferences world-wide. The book is also targeted for students attending Embry-Riddle Aeronautical University which has satellite campuses throughout the world and offers a course in human factors accident investigation for many of

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its majors. In addition, the book will be incorporated into courses offered by Transportation Safety International and the Southern California Safety Institute. Finally, this book serves as an excellent reference guide for many safety professionals and investigators already in the field.

This 1991 book is a major theoretical integration of several previously isolated literatures looking at human error in major accidents.

This book explores the human contribution to the reliability and resilience of complex, well-defended systems. Usually the human is considered a hazard - a system component whose unsafe acts are implicated in the majority of catastrophic breakdowns. However

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Situations and systems are easier to change than the human

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condition - particularly when people are well-trained and well-motivated, as they usually are in maintenance organisations. This is a down-to-earth practitioner's guide to managing maintenance error, written in Dr. Reason's highly readable style. It deals with human risks generally and the special human performance problems arising in maintenance, as well as providing an engineer's guide for their understanding and the solution. After reviewing the types of error and violation and the conditions that provoke them, the author sets out the broader picture, illustrated by examples of three system failures. Central to the book is a comprehensive review of error management, followed by chapters on:- managing person, the task and the team; - the workplace and the organization; - creating a safe culture; It is then rounded off and brought together, in such a way as to be readily applicable for those who can make it work, to achieve

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a greater and more consistent level of safety in maintenance activities. The readership will include maintenance engineering staff and safety officers and all those in responsible roles in critical and systems-reliant environments, including transportation, nuclear and conventional power, extractive and other chemical processing and manufacturing industries and medicine.

Major accidents are rare events due to the many barriers, safeguards and defences developed by modern technologies. But they continue to happen with saddening regularity and their human and financial consequences are all too often unacceptably catastrophic. One of the greatest challenges we face is to develop more effective ways of both understanding and limiting their occurrence. This lucid book presents a set of common principles to further our knowledge of the

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causes of major accidents in a wide variety of high-technology systems. It also describes tools and techniques for managing the risks of such organizational accidents that go beyond those currently available to system managers and safety professionals. James Reason deals comprehensively with the prevention of major accidents arising from human and organizational causes. He argues that the same general principles and management techniques are appropriate for many different domains. These include banks and insurance companies just as much as nuclear power plants, oil exploration and production companies, chemical process installations and air, sea and rail transport. Its unique combination of principles and practicalities make this seminal book essential reading for all whose daily business is to manage, audit and regulate hazardous technologies of all kinds. It is relevant to those concerned

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with understanding and controlling human and organizational factors and will also interest academic readers and those working in industrial and government agencies.

Space Safety and Human Performance provides a comprehensive reference for engineers and technical managers within aerospace and high technology companies, space agencies, operators, and consulting firms. The book draws upon the expertise of the world's leading experts in the field and focuses primarily on humans in spaceflight, but also covers operators of control centers on the ground and behavior aspects of complex organizations, thus addressing the entire spectrum of space actors. During spaceflight, human performance can be deeply affected by physical, psychological and psychosocial stressors. Strict selection, intensive

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training and adequate operational rules are used to fight performance degradation and prepare individuals and teams to effectively manage systems failures and challenging emergencies. The book is endorsed by the International Association for the Advancement of Space Safety (IAASS). Provides information on critical aspects of human performance in space missions Addresses the issue of human performance, from physical and psychosocial stressors that can degrade performance, to selection and training principles and techniques to enhance performance Brings together essential material on: cognition and human error; advanced analysis methods such as human reliability analysis; environmental challenges and human performance in space missions; critical human factors and man/machine interfaces in space systems design; crew selection and training; and organizational behavior and safety

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This succinct but absorbing book covers the main way stations on James Reason's 40-year journey in pursuit of the nature and varieties of human error. In it he presents an engrossing and very personal perspective, offering the reader exceptional insights, wisdom and wit as only James Reason can. The journey begins with a bizarre absent-minded action slip committed by Professor Reason in the early 1970s - putting cat food into the teapot - and continues up to the present day, conveying his unique perceptions into a variety of major accidents that have shaped his thinking about unsafe acts and latent conditions. A Life in Error charts the development of his seminal and hugely influential work from its

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original focus into individual cognitive psychology through the broadening of scope to embrace social, organizational and systemic issues. The voyage recounted is both hugely entertaining and educational, imparting a real sense of how James Reason's groundbreaking theories changed the way we think about human error, and why he is held in such esteem around the world wherever humans interact with technological systems. This book is essential reading for students, academics and safety professionals of all kinds who are interested in avoiding breakdowns that can cause serious damage to people, assets and the environment.

While a quick response can save you in a time of crisis, avoiding a crisis remains the best defense. When dealing with complex industrial systems, it has become increasingly obvious that

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preparedness requires a sophisticated understanding of human factors as they relate to the functional characteristics of socio-technology systems. Edited by industrial safety expert Erik Hollnagel and featuring commentary from leaders in the field, *Safer Complex Industrial Environments: A Human Factors Approach* examines the latest research on the contemporary human factors approach and methods currently in practice. Drawing on examples mainly from the nuclear industry, the book presents a contemporary view on human factors in complex industrial systems. The contributors contrast the traditional view of human factors as a liability with the contemporary view that recognizes human factor as also an asset without which the safe and efficient performance of complex industrial systems would be impossible. It describes how this view has developed in parallel to the increasing complexity and

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intractability of socio-technical systems and partly as a consequence of that. The book also demonstrates how this duality of the human factor can be reconciled by recognizing that the human and organizational functions that can be the cause of adverse events are also the very foundation for safety. Building on this, the book introduces theories and methods that can be used to describe human and collective performance in a complex socio-technical environment. It explores how contemporary human factors can be used to go beyond failure analysis to actively make complex industrial environments safer.

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