

Structural Failure of Building's Walkway: Case Study

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Introduction

Thirty years ago, on July 17, 1981, two walkways in the Hyatt Regency Hotel in Kansas City, Missouri, collapsed, killing 114 people and injuring 216, many of whom were permanently disabled. Two steel walkways were stacked on top of each other and suspended from the ceiling above. The top walkway fell on the bottom walkway, and the two fell onto the floor of the crowded atrium below. The collapse was the worst structural failure in the history of the United States. This paper will briefly discuss the causes of this collapse, design and construction issues, lessons learned, and ethical and legal issues associated with this collapse.

As-Designed Walkway Configuration

The Hyatt Regency Hotel was a 40-story building with an atrium. Three walkways were suspended from the atrium's ceiling using 32-mm (1.25 in.) diameter tension rods (Fig. 1). The 2nd-floor walkway, directly below the 4th-floor walkway, was suspended from the steel beams of the 4th-floor walkway, whereas the 3rd and 4th-floor walkways hung from the atrium's ceiling. The tension rods that supported the 2nd- and 4th-floor walkways were designed

to be continuous rods from the 2nd floor to the atrium ceiling. The architect wanted the walkways to look as light and airy as possible, suspended by thin rods hanging down from the atrium's steel framing above.

After the collapse, investigators determined that this design was capable of supporting only 60% of the minimum load required by Kansas City building code (Kaminetzky 1991).

Revisions during Construction That Caused the Collapse

The manufacturer of the tension rods requested that the 2nd- and 4th-floor rod be changed from one continuous rod into two separate rods (Figs. 2 and 3). This request was made because of the difficulty in making the threads at the 4th floor. Also, these threads would probably have been damaged as the structure of the 4th-floor walkway was hoisted into position. This design change, by itself, is the one that caused the collapse.

In the original design, the beams of the 4th-floor walkway had to support only the weight of the 4th-floor walkway itself (load P_1 in Fig. 2). The weight of the 2nd-floor walkway (load P_2 in Fig. 2) was completely supported by the rods. In the revised design (Fig. 3), the 4th-floor beams were required to support the 4th-floor load (load P_1) and the 2nd-floor load (load P_2). In the original design (Fig. 2), the net directly below the 4th floor would have resisted only load P_1 , whereas in the revised design, it is resisting $P_1 + P_2$ (Figs. 2 and 3).

Unfortunately, the engineer of record (EOR) approved the revised design without performing any calculations to check the

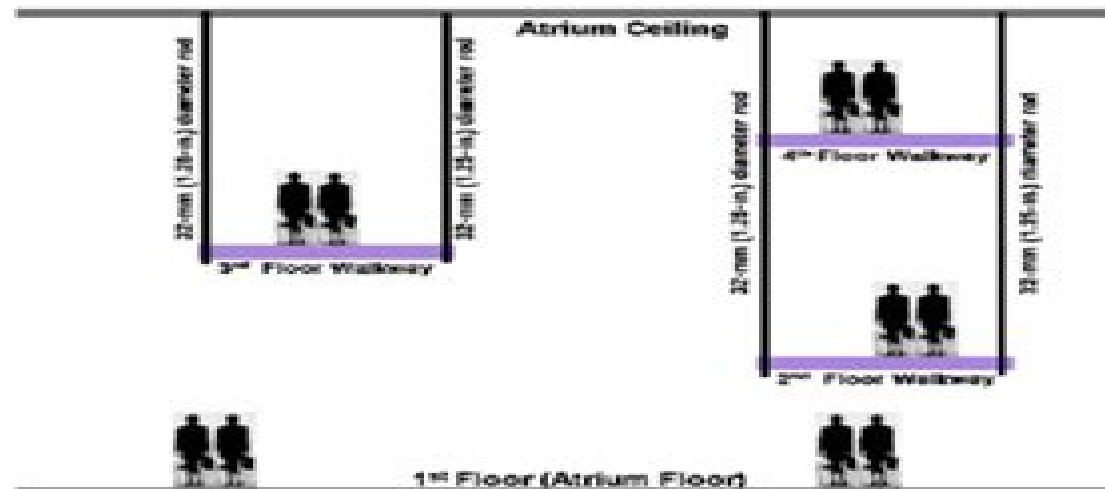
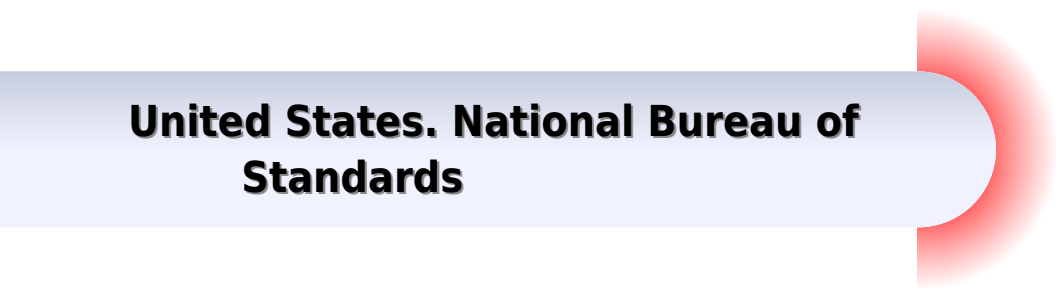


Fig. 1. Atrium of Hyatt Regency Hotel, Kansas City, Missouri

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Building Failures, Case Studies in Construction and Design Thomas Hourston Mackaig, 1962 **Construction Failure**
Jacob Feld, Kenneth L. Carper, 1996-12-26 First published in 1968 Jacob Feld's *Construction Failure* has long been considered the classic text on the subject. Retaining all of the key components of Feld's comprehensive exploration of the root causes of failure, this Second Edition addresses a multitude of important industry developments to bring this landmark work up to date for a new generation of engineers, architects, and students. In addition to detailed coverage of current design tools, techniques, materials, and construction methods, *Construction Failure* Second Edition features an entire chapter on the burgeoning area of construction litigation, including a thorough examination of alternative dispute resolution techniques. Like the original, this edition discusses technical and procedural failures of many different types of structures, but is now supplemented with new case studies to illustrate the dynamics of failure in action today. Jacob Feld knew thirty years ago that in order to learn from our mistakes, we must first acknowledge and understand them. With this revised volume, Kenneth Carper has ensured that Feld's posthumous message will continue to be heard for years to come. Jacob Feld's comprehensive work on failure analysis has now been skillfully amended to address current design and construction tools, materials, and practices. Building on the first edition's peerless examination of the causes and lessons of failure, *Construction Failure* Second Edition provides you with expanded coverage of Technical, procedural, structural, and nonstructural failures: Natural hazards, earthworks, soil, and foundation problems, and more. Reinforced, precast, and prestressed concrete, steel, timber, masonry, and other materials. Responsibility and litigation concerns, dispute avoidance, and alternative dispute resolution techniques. Construction safety issues. Many different types of structures, including dams and bridges. *Construction Failure* has as much to teach us today as it did thirty years ago. This revised volume is an essential resource for design engineers, architects, construction managers, lawyers, and students in all of these fields.

Perspectives in Civil Engineering Jeffrey S. Russell, 2003-01-01 This report contains 27 papers that serve as a testament to the state of the art of civil engineering at the outset of the 21st century, as well as to commemorate the ASCE's Sesquicentennial. Written by the leading practitioners, educators, and researchers of civil engineering, each of these peer-reviewed papers explores a particular aspect of civil engineering knowledge and practice. Each paper explores the development of a particular civil engineering specialty, including milestones and future barriers, constraints, and opportunities. The papers celebrate the history, heritage, and accomplishments of the profession in all facets of practice, including construction, facilities, special structures, engineering, mechanics, surveying, and mapping, irrigation, and water quality, forensics, computing, materials, geotechnical engineering, hydraulic engineering, and transportation engineering. While each paper is unique, collectively they provide a snapshot of the profession while offering thoughtful predictions of likely developments in the years to come. Together, the papers illuminate the mounting complexity facing civil engineering, stemming from rapid growth in scientific knowledge, technological development, and human populations, especially in the last

50 years An overarching theme is the need for systems level approaches and consideration from undergraduate education through advanced engineering materials processes technologies and design methods and tools These papers speak to the need for civil engineers of all specialties to recognize and embrace the growing interconnectedness of the global infrastructure economy society and the need to work for more sustainable life cycle oriented solutions While embracing the past and the present the papers collected here clearly have an eye on the future needs of ASCE and the civil engineering profession

Handbook of Materials Failure Analysis With Case Studies from the Construction Industries Abdel Salam Hamdy Makhlouf, Mahmood Aliofkhaezai, 2018-04-27 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 *NBS Building Science Series*, 1974 **Building Failures-cases Studies in Construction and Design** Thomas H. Mac Kaig, 1962 **The Application of Contracts in Engineering and Construction Projects** Donald Charrett, 2018-07-04 Written by an engineer and construction lawyer with many years of experience The Application of Contracts in Engineering and Construction Projects provides unique and invaluable guidance on the role of contracts in construction and engineering projects Compiling papers written and edited by the author it draws together a lifetime of lessons learned in these fields and covers the topics a practicing professional might encounter in such a project developed in bite sized chunks Key topics included are the engineer and the contract the project and the contract avoidance and resolution of disputes forensic engineers and expert witnesses and international construction contracts The inclusion of numerous case studies to illustrate the importance of getting the contract right before it is entered into and the consequences that may ensue if this is not done makes The Application of Contracts in Engineering and Construction Projects essential reading for construction professionals lawyers and students of construction law *NBS Building Science Series*

United States. National Bureau of Standards,1974 *Case Studies on Failure Investigations in Structural and Geotechnical Engineering* Fabrizio Palmisano,Laurent Rus,2023-09-14 Failures of structures occur in all parts of the world as the result of design errors construction defects abuse or misuse ageing and deterioration of the structure lack of maintenance as well as environmental effects such as wind flood snow earthquake and of course human errors They can result in catastrophic human costs as well as heavy financial losses to all involved including local economic growth deceleration expensive delays and repairs as well as other repercussions such as legal actions to responsible parties Welcome effects of these unfortunate events include a better understanding of the origins and causes of structural failures their corresponding lessons learnt and a more effective mitigation of their occurrence through changes in codes standards guidelines and practice In several countries the investigation process of the causes of failures responsibilities and resolution of the consequent claims have created an active demanding and specialised field of professional practice often referred to as Forensic Structural Engineering with well defined technical and legal procedures This bulletin is the result of the work lead by the Task Group 5 1 Forensic Structural Engineering It provides understanding of the origins causes and consequences of failures their forensic investigations and the lessons learnt from them The aim of the bulletin is not only to describe different examples but mainly to use emblematic case studies to show procedures that can be used when dealing with structural failures In addition to obtaining a deeper insight into the technical causes for structural failure the reader would be duly informed about the different countries legal issues related to the investigation process The bulletin is aimed at young mid career and experienced structural engineers who want to acquire a better understanding of failure mechanisms towards improving their design inspection construction administrative and other project related practices to avoid pitfalls that may lead to failures It also aims at those wanting to acquire a working knowledge of the challenging professional practice of forensic structural engineering **Proceedings from the International Conference on Advances in Engineering and Technology (AET2006)** Jackson Mwakali,2006-10-19 Proceedings from the International Conference on Advances in Engineering and Technology AET2006

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