



# Failed Bridges: Case Studies, Causes and Consequences

By Joachim Scheer

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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.

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## **Failed Bridges: Case Studies, Causes and Consequences** By Joachim Scheer **Bibliography**

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### Editorial Review

#### Review

"The decision to publish this expanded version in English recognized that engineers around the world often seem to fail to learn from the mistakes in their predecessors, and it was desirable to expand the book's audience much more widely." (*The Happy Pontist*, June 2010)

#### From the Back Cover

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#### About the Author

Univ. Prof. Dr.-Ing. E. h. Joachim Scheer taught Steel Construction at the Technical University of Braunschweig (Germany). He has investigated and written expert reports on numerous cases of structural failure and has frequently served as a coordinator of committees working on German technical standards. This book is based on over thirty years of teaching, research and consultancy.

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