The need for large-scale bridges is constantly growing due to the enormous infrastructure development around the world. Since the 1970s many of them have been cable-stayed bridges. In 1975 the largest span length was 404 m, in 1995 it increased to 856 m, and today it is 1104 m. Thus the economically efficient range of cable-stayed bridges is tending to move towards even larger spans, and cable-stayed bridges are increasingly the focus of interest worldwide.

This book describes the fundamentals of design analysis, fabrication and construction, in which the author refers to 250 built examples to illustrate all aspects. International or national codes and technical regulations are referred to only as examples, such as bridges that were designed to German DIN, Eurocode, AASHTO, British Standards. The chapters on cables and erection are a major focus of this work as they represent the most important difference from other types of bridges.

The examples were chosen from the bridges in which the author was personally involved, or where the consulting engineers, Leonhardt, Andrä and Partners (LAP), participated significantly. Other bridges are included for their special structural characteristics or their record span lengths. The most important design engineers are also presented.

Note: The lecture videos which are attached to the print book on DVD are not part of the e-book.
Holger Svensson's name stands for 40 years of large-scale bridge construction the world over. He obtained his diploma from Stuttgart University and, since 1972, has worked with the world-famous Fritz Leonhardt. At LAP, Prof. Dipl.-Ing. Holger Svensson, PE, CEng, FIstructE, has been active as structural engineer, project manager and chief engineer, and from 1992 to 2010 as managing director and chairman of the board. He has been responsible for the design analysis, construction engineering and checking of cable-stayed bridges around the world, such as the Pasco-Kennewick Bridge over the Columbia River, USA, and the Helgeland Bridge over Leirfjord, Norway.

Since 2009 he has been a lecturer and since 2012 is a professor at Dresden University where he teaches all aspects of the design and construction of cable-stayed bridges.

Holger Svensson was for eight years a vice-president of the International Association for Bridge and Structural Engineering (IABSE) and is currently an independent consulting engineer and a member of the juries for German bridge and structural engineering prizes.

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