



# Bridge Aeroelasticity: Sensitivity Analysis and Optimum Design (High Performance Structures and Materials)

*By J. A. Jurado, S. Hernandez, F. Nieto, A. Mosquera*

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Bridge Aeroelasticity: long-span suspension and cable-stayed bridges are currently of great interest, a fact reflected by an ever-increasing number of bridges being built over bays, straits and estuaries. Consequently, the authors deemed this an opportune time to write this book, which describes the current capabilities of analysis and design and is aimed at bridge design engineers and researchers, and brings together cogently information that hitherto could only be found in technical magazines.

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#### **Review**

"The book is indeed comprehensive containing descriptions of various types of bridges in the world with color illustrations, discussion of various failures with a technical and historical perspective, development of equations for flutter analysis, computational algorithms and applications to various bridges construction considerations, experimental approaches, and design optimization...In summary, the book is an excellent resource for diverse readers, be they engineers, researchers, professors or graduated students, in civil engineering. Each chapter is accompanied by an extensive bibliography for further study. The excellent illustrations add to the readability of the book." --Journal of Bridge Engineering, April 2013, pg 347

#### **About the Author**

Jose Angel Jurado, Felix Nieto Mourante and Alejandro Mosquera Martinez are all professors in the Department of Civil Engineering at the Universidade da Coruna, Spain.

Santiago Hernandez Ibanez has been a professor of bridge engineering in the Dept of Civil Engineering at the Universidade da Coruna since 1993, where he is in charge of the aerodynamic wind tunnel. He has over 25 years of experience in teaching, research and writing on structural optimization and has also conducted research on the aeroelastic design of cable suspension bridges. Hernandez has worked on the structural restoration of buildings of historical importance, including a number of well known churches. Well known as a lecturer throughout Europe, Asia and the Americas and has been a pioneer in structural engineering education in Europe.

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