



Analysis and Design of Steel and Composite Structures

By Qing Quan Liang



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Steel and composite steel-concrete structures are widely used in modern bridges, buildings, sport stadia, towers, and offshore structures. **Analysis and Design of Steel and Composite Structures** offers a comprehensive introduction to the analysis and design of both steel and composite structures. It describes the fundamental behavior of steel and composite members and structures, as well as the current design criteria and procedures given in Australian standards AS/NZS 1170, AS 4100, AS 2327.1, Eurocode 4, and AISC-LRFD specifications.

Featuring numerous step-by-step examples that clearly illustrate the detailed analysis and design of steel and composite members and connections, this practical and easy-to-understand text:

- Covers plates, members, connections, beams, frames, slabs, columns, and beam-columns
- Considers bending, axial load, compression, tension, and design for strength and serviceability
- Incorporates the author's latest research on composite members

Analysis and Design of Steel and Composite Structures is an essential course textbook on steel and composite structures for undergraduate and graduate students of structural and civil engineering, and an indispensable resource for practising structural and civil engineers and academic researchers. It provides a sound understanding of the behavior of structural members and systems.

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Review

"Thoroughly covers local buckling of thin steel plates."

?Theodore Karavasilis, associate professor, School of Engineering, University of Warwick, UK

"This book covers the traditional teaching materials on steel and composite structures. The accounts on the use of Australian standards, in particular, over the wind actions are thoroughly assessed. This book provides a solid foundation for those who exercise Australian standards in their daily works."

?Dr. Tak-Ming Chan, Hong Kong Polytechnic University, China and University of Warwick, Coventry, UK

About the Author

Qing Quan Liang is an associate professor of structural engineering at Victoria University, Melbourne, Australia. He obtained his Ph.D from Victoria University of Technology, Melbourne, Australia, and ME from the University of Wollongong, New South Wales, Australia. He has published more than 84 technical books, book chapters, special issues, journal articles, and refereed conference papers, and is a member of the editorial board of *Steel and Composite Structures: An International Journal*. An ASCE member, he served on the ASCE Technical Committees on Optimal Structural Design and on Composite Construction and received the ASCE 2005 State-of-the-Art of Civil Engineering Award.

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