



# Introduction to Structural Aluminum Design

*Ulrich Muller*

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## **Introduction to Structural Aluminum Design** Ulrich Muller

This book discusses the use of aluminium in structural and non-structural applications and provides an introduction to designing structures made from aluminium or aluminium alloy elements. It provides a complete ready reference to the material properties and behavior of aluminium, and its use in structural design.

In the context of information about the material itself, fabrication, structural design and corrosion, structural analysis, serviceability, element design and fatigue the author considers the strengths of designing with aluminium alloy members and how any weaknesses can be overcome. Reference is made throughout to EN 1999, Eurocode 9, and its design methods are discussed and illustrated.

With most of its structural strength properties close to steel and with consideration for the special properties of aluminium alloys, there is considerable scope to make better use of this material in construction. Many years of working with aluminium have provided the author with the knowledge to avoid pitfalls and problems in design, fabrication and protection of structures, thus avoiding costly remedial work.

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