



# Strength Design in Aluminum: A Review of Three Codes

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### Strength Design in Aluminum: A Review of Three Codes

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Strength Design in Aluminum: A Review of Three Codes has been prepared by the Task Committee on Strength Design in Aluminum of the Structural Engineering Institute of ASCE to compare the Canadian CSA S157-03 Strength Design in Aluminum, 2003; the Eurocode 9 Design of Aluminum Alloy Structures (EC9); and the Aluminum Association's Specification for Aluminum Structures: Load and Resistance Factor Design, 2nd Edition, 2000. Frequently using a tabular format, this report compares how the three codes treat symbols, design principles, material principles, resistance limited by yield or rupture, buckling, and connections. The aim of this book is to provide a basis for the preparation of a common document by signaling the areas of agreement, and more importantly, the areas of disagreement. By stripping the load and resistance factors from the design expressions, this book is able to compare the essential rules of engineering on which the codes are based, and to compare the positions taken by three different code writing committees. This book is a valuable resource for structural engineers working with aluminum, especially in the U.S.A., Canada, or in Europe.



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