

# Aluminium Structures- Allowable stress design (AS1664.2 1997)

**1.2 MATERIALS** The principal materials to which these specifications apply are aluminium alloys that comply with AS 1734, AS 1865, AS 1866, AS 1867 and AS 2848.1. Those structural members frequently used are listed in Table 3.3(A).

## **1.3 SAFETY FACTORS**

**1.3.1 Building type structures** Basic allowable tensile stresses for buildings, structural supports for highway signs, luminaires, traffic signals and similar structures shall be the lesser of the minimum yield strength divided by a factor of safety of 1.65, or the minimum ultimate tensile strength divided by a factor of safety of 1.95. Other allowable stresses for buildings and similar structures shall be based upon the factors of safety shown in Table 3.4(A).

**1.3.2 Bridge type structures** Basic allowable tensile stresses for bridge type structures shall be the lesser of the minimum yield strength divided by a factor of safety of 1.85, or the minimum ultimate tensile strength divided by a factor of safety of 2.2. Other allowable stresses for bridge and similar structures shall be based upon the factors of safety shown in Table 3.4(A).

**1.3.3 Other type structures** Where it is customary or standard practice to use factors of safety other than those given in Clauses 1.3.1 or 1.3.2, the general formulas in Table 3.4(C) shall be permitted to be used with the desired factors of safety substituted for  $n_x$ ,  $n_y$  or  $n_z$ .

## **SECTION 2 DESIGN PROCEDURE**

**2.1 PROPERTIES OF SECTIONS** Properties of sections, such as cross-sectional area, moment of inertia, section modulus, radius of gyration and torsion constants, shall be determined in accordance with accepted methods of structural analysis.

**2.2 PROCEDURE** Computations of forces, moments, stresses and deflections shall be

# Behavior And Design Of Aluminum Structures

**Igor Marinovic**



## **Behavior And Design Of Aluminum Structures:**

*Behavior and Design of Aluminum Structures* Maurice L. Sharp,1993      *Fatigue Design of Aluminum Components and Structures* Maurice L. Sharp,Glenn E. Nordmark,Craig C. Menzemer,1996 Focusing on the design challenges associated with using aluminum in such fatigue critical applications as highway infrastructures transportation vehicles automotive suspension systems and aircraft and machine parts this reference gives the data and guidelines that mechanical and civil design engineers need to meet these challenges head on      *Handbook of Structural Engineering* W.F. Chen,E.M. Lui,2005-02-28 Continuing the best selling tradition of the Handbook of Structural Engineering this second edition is a comprehensive reference to the broad spectrum of structural engineering encapsulating the theoretical practical and computational aspects of the field The contributors cover traditional and innovative approaches to analysis design and rehabilitation New topics include fundamental theories of structural dynamics advanced analysis wind and earthquake resistant design design of prestressed structures high performance steel concrete and fiber reinforced polymers semirigid frame structures structural bracing and structural design for fire safety      **Structural Behavior and Design of Two Custom Aluminum Extruded Shapes in Custom Unitized Curtain Wall Systems** ,2006 The focus of the research in this thesis is on the structural behavior and design of two aluminum E type structural sections that are used in unitized curtain wall systems today Moment capacities of the two E type sections as one are analyzed by three methods hand calculations using Minimum Moment Capacity Approach and Total Moment Capacity Approach the finite element method using ABAQUS program and via an experimental investigation A comparison of moment capacities determined using the three methods is presented Upon the evaluation and comparison of the results obtained by the three methods in this study the Total Moment Capacity Approach is determined to be an accurate method to predict moment capacities of the two E type structural sections functioning as one structural member and is recommended for the evaluation of moment capacities of complex thin walled sections and assembled sections to supplement the Specification for Aluminum Structures 2000      **Wood Engineering and Construction Handbook** Keith F. Faherty,Thomas G. Williamson,1997 All the information formulas procedures and examples that you need to design virtually any type of wood structure of structural wood component that s what you get in this indispensable handbook      **STESSA 2000: Behaviour of Steel Structures in Seismic Areas** Federico Mazzolani,Robert Tremblay,2000-01-01 This is a review of developments in the behaviour and design of steel structures in seismic areas The proceedings look at the analytical and experimental research on the seismic response of steel structures and cover topics such as global behaviour and codification design and application      [Energy Materials Coordinating Committe \(EMaCC\): Fiscal Year 2000 Annual Technical Report](#) ,      [Proceedings of the 11th International Conference on Behaviour of Steel Structures in Seismic Areas](#) Federico M. Mazzolani,Vincenzo Piluso,Elide Nastri,Antonio Formisano,2024-06-23 This volume highlights the latest advances innovations and applications in the field of seismic design

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*Welding Handbook* American Welding Society,2001    **The Aluminum Industry...: Aluminum products and their fabrication** Junius David Edwards,Francis Cowles Frary,Zay Jeffries,1930    *Thin-walled Metal Structural Members* Igor Marinovic,1994    Aluminium Structural Analysis P S Bulson,1992-02-05 The latest developments in the structural analysis of aluminium components are presented here giving background to design rules which enables designers to gain the confidence to follow progressive ideas supported by accurate and perceptive structural analysis    *Geotechnical Materials in Construction* Marian P. Rollings,Raymond S. Rollings,1996 This text describes basic geotechnical materials testing procedures and expected material properties as these factors affect construction projects The book provides guidance and field solutions for dealing with improving and using geotechnical materials in engineering construction projects Data is synthesized in a concise and functional format which includes applications It deals with construction procedures rather than design    **New Technical Books** New York Public Library,1993    **Materials for Tomorrow's Infrastructure** Civil Engineering Research Foundation,1994 This report presents a detailed program to transform our nation s infrastructure    **Structures** National Research Council (U.S.). Transportation Research Board,1993    Scientific and Technical Aerospace Reports ,1994    Proceedings American Welding Society,1994    **Engineering Courses and Curricula** Cornell University. College of Engineering,1963    **The Cumulative Book Index** ,1994 A world list of books in the English language

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