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Autore	Hayward Alan (Alan T. J.)
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Altri autori (Persone)	WeareFrank OakhillAnthony
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Nota di contenuto	Cover; Title Page; Copyright; List of Figures; List of Tables; Preface; Chapter 1: Use of Structural Steel; 1.1 Why Steel?; 1.2 Structural Steels; 1.3 Structural Shapes; 1.4 Tolerances; 1.5 Connections; 1.6 Interface to Foundations; 1.7 Welding; 1.8 Bolting; 1.9 Dos and don'ts; 1.10 Protective Treatment; 1.11 Drawings; 1.12 Codes of Practice; Chapter 2: Detailing Practice; 2.1 General; 2.2 Layout of Drawings; 2.3 Lettering; 2.4 Dimensions; 2.5 Projection; 2.6 Scales; 2.7 Revisions; 2.8 Beam and Column Detailing Conventions; 2.9 Erection Marks; 2.10 Opposite Handing; 2.11 Welds; 2.12 Bolts 2.13 Holding Down Bolts 2.14 Abbreviations; Chapter 3: Design Guidance; 3.1 General; 3.2 Load Capacities of Simple Connections; 3.3 Sizes and Load Capacity of Simple Column Bases; Chapter 4: Detailing Data; Chapter 5: Connection Details; Chapter 6: Computer Aided Detailing; 6.1 Introduction; 6.2 Steelwork detailing; 6.3 Constructing a 3-D model of a steel structure; 6.4 Object orientation; 6.5 CNC/rapid prototyping; 6.6 Future developments; Chapter 7: Examples of Structures; 7.1 Multi-storey frame buildings; 7.2 Single-storey frame buildings; 7.3 Portal frame buildings

7.4 Vessel support structure; 7.5 Roof over reservoir; 7.6 Tower; 7.7 Bridges; 7.8 Single-span highway bridge; 7.9 Highway sign gantry; 7.10 Staircase; Table of Standards; Codes and Standards referred to in this Edition; References; Further Reading; Appendix; Mass of round and square bars; Mass of flats; Metric conversion of units; Building materials; Packaged materials; Angle of internal friction and mass of materials; Values of K_a (Coefficient of Active Pressure) for Cohesionless Materials; Approximate mass of floors; Index

Sommario/riassunto

This highly illustrated manual provides practical guidance on structural steelwork detailing. It:

- describes the common structural shapes in use and how they are joined to form members and complete structures
- explains detailing practice and conventions
- provides detailing data for standard sections, bolts and welds
- emphasises the importance of tolerances in order to achieve proper site fit-up
- discusses the important link between good detailing and construction costs

Examples of structures include single and multi-storey buildings, towers and bridge
