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Nota di contenuto	TIMBER DESIGNERS' MANUAL; Contents; Preface; Acknowledgements; About the Authors; 1. The Materials Used in Timber Engineering; 1.1 Introduction; 1.2 Timber; 1.3 Plywood; 1.4 Particleboard, oriented strand board, cement-bonded particleboard and wood fibreboards; 1.5 Engineered wood products; 1.6 Mechanical fasteners; 1.7 Adhesives used in timber engineering; 2. Stress Levels for Solid Timber; 2.1 Introduction; 2.2 Derivation of basic stress and characteristic strength values; 2.3 Modulus of elasticity and shear modulus; 2.4 Grade stress; 2.5 Load sharing; 2.6 Moisture content; 3. Loading 3.1 Types of loading3.2 Load duration; 3.3 Concentrated loadings; 3.4 Dead loading; 3.5 Imposed loadings for floors; 3.6 Imposed loadings for roofs; 3.7 Snow loading; 3.8 Roof loadings on small buildings; 3.9 Wind loading; 3.10 Unbalanced loading; 3.11 Combinations of loading; 3.12 Special loadings; 4. The Design of Beams: General Notes; 4.1 Related chapters; 4.2 Design considerations; 4.3 Effective design span; 4.4 Load-sharing systems; 4.5 Load-duration factor; 4.6 Lateral stability; 4.7 Moisture content; 4.8 Bending stresses; 4.9 Depth and

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4.12 The effect of notches and holes4.13 Shear in beams supported by fastenings and in eccentric joints; 4.14 Glue-line stresses; 4.15 Deflection; 4.16 Bending and shear deflection coefficients; 5. Beams of Solid Timber; 5.1 Introduction; 5.2 General design; 5.3 Principal beams of solid timber; 5.4 Load-sharing systems of solid timber; 5.5 Geometrical properties of solid timber sections in service classes 1 and 2; 5.6 Principal members bending about both the x-x and y-y axes; 6. Multiple Section Beams; 6.1 Introduction; 6.2 Modification factors; 6.3 Connection of members; 6.4 Standard tables
6.5 Design example7. Glulam Beams; 7.1 Introduction; 7.2 Timber stress grades for glulam; 7.3 Strength values for horizontally or vertically laminated beams; 7.4 Appearance grades for glulam members; 7.5 Joints in laminations; 7.6 Choice of glue for glulam; 7.7 Preservative treatment; 7.8 Standard sizes; 7.9 Tables of properties and capacities of standard size in C24 grade; 7.10 Typical designs; 7.11 The calculation of deflection and bending stress of glulam beams with tapered profiles; 8. Thin Web Beams; 8.1 Introduction; 8.2 Primary design considerations; 8.3 Design examples
8.4 Web splices8.5 Web stiffeners; 8.6 Holes or slots in ply web beams; 8.7 Proprietary sections; 9. Lateral Stability of Beams; 9.1 Introduction; 9.2 Buckling of rectangular solid and glulam sections; 9.3 Design examples; 9.4 Partially restrained thin web I beams; 10. Structural Composite Lumber; 10.1 Introduction; 10.2 Kerto-LVL (Laminated Veneer Lumber); 10.3 Versa-Lam SP LVL (Laminated Veneer Lumber); 10.4 Parallam PSL (Parallel Strand Lumber); 10.5 TimberStrand (Laminated Strand Lumber); 11. Solid Timber Decking; 11.1 Introduction; 11.2 Span and end joint arrangements
11.3 Nailing of decking

Sommario/riassunto

This major reference manual covers both overall and detail design of structural timber, including aspects such as shear deflection, creep, dynamic and lateral stability considerations for flexural members. Available for the first time in paperback, the Third Edition was substantially revised to take account of the many changes since the previous edition was published in 1984. It is based on British Standard BS 5268-2: 2002, which brought design concepts closer to European practice and Eurocode 5.Features of the Third Edition include:* information on bolt values including