

6. Connections

6.1 Introduction

Connections are used if a change in direction occurs or the length of the member may be inadequate. Connections are needed to join:

- members together in trusses and lattice girders;
- plates together to form built-up members;
- beams to beams, beams, trusses, bracing, etc. to columns in structural frames, and
- columns to foundations

Connections may be made by bolting, welding or hybrid of bolting and welding

6.2 Bolts

6.2.1 Non-preloaded bolts

The ISO metric 'black' hexagon head ordinary non-preloaded bolt shown the following figure with nut and washer is the most commonly used structural fastener in the industry. The bolts and their strength grades are given below.

Strength grade	$f_u(Mpa)$	$f_y(Mpa)$
4.6	400	240
8.8	800	640
10.9	1000	900



6.2.2 Direct shear joints

Bolts may be arranged to act in single or double shear, as shown in Figure 10.3.

Provisions governing spacing, edge and end distances are set out in chapter 2.

A shear joint can fail in the following four ways:

- i. by shear on the bolt shank,
- ii. by bearing on the member or bolt,
- iii. by shear at the end of the member, and
- iv. by tension in the member.

These failures modes can be prevented by taking the following measures:

- For modes (i) and (ii), provide sufficient bolts of suitable diameter.
- Provide sufficient end distance for mode (iii).
- For mode (iv), design tension members for effective area

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Zainul Huda



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Manufacturing Zainul Huda, 2018-05-11 This unique book is equally useful to both engineering degree students and production engineers practicing in industry. The volume is designed to cover three aspects of manufacturing technology: a fundamental concepts, b engineering analysis, mathematical modeling of manufacturing operations, and c 250 problems and their solutions. These attractive features render this book suitable for recommendation as a textbook for undergraduate as well as Master level programs in Mechanical Materials Industrial Engineering. There are 19 chapters in the book; each chapter first introduces readers to the technological importance of chapter topic and definitions of terms and their explanation, and then the mathematical modeling, engineering analysis of the corresponding manufacturing operation is presented. The meanings of the terms along with their SI units in each mathematical model are clearly stated. There are over 320 mathematical models/equations. The book is divided into three parts. Part One introduces readers to manufacturing and basic manufacturing processes: metal casting, plastic molding, metal forming, ceramic processing, composite processing, heat treatment, surface finishing, welding, joining, and powder metallurgy, and their engineering analysis, mathematical modeling, followed by worked examples/solved problems. Part Two covers non-traditional machining and computer-aided manufacturing, including their mathematical modeling and the related solved problems. Finally, quality control (QC) and economic aspects of manufacturing are discussed in Part Three. Features: Presents over 320 mathematical models and 250 worked examples. Covers both conventional and non-traditional manufacturing. Includes design problems and their solutions on engineering manufacturing processes. Special emphasis on casting design and weld design in manufacturing. Offers computer-aided manufacturing, quality control, and economics of manufacturing. **Applied Mechanics Reviews**, 1948 **Questions and Answers Relating to Modern Automobile Design, Construction, Driving and Repair** Victor Wilfred Pagé, 1916 **Railway Machinery**, 1911 **Machinery** Lester Gray French, 1922 **Machinery** Fred Herbert Colvin, Lester Gray French, 1906 **Mechanical Appliances, Mechanical Movements and Novelties of Construction** Gardner Dexter Hiscox, 1927 **The Publishers' Circular and Booksellers' Record**, 1920 *The Athenaeum*, 1913 **Engineering Journal**, 1924 Vol 7 no 7 July 1924 contains papers prepared by Canadian engineers for the first World power conference July 1924 *Marine Engineering Log*, 1922 **Chemical Engineering Catalog**, 1922 **Whitaker's Cumulative Book List**, 1963 **The Bookseller**, 1903 *Boiler Maker*, 1924 **Industrial Management** John R. Dunlap, 1917 **Factory and Industrial Management** John Robertson Dunlap, Arthur Van Vlissingen, John M. Carmody, 1917 **Bookseller**, 1903 Vols for 1871 76 1913 14 include an extra number. The Christmas bookseller separately paged and not included in the consecutive numbering of the regular series **British Books**, 1920 *The Spectator*, 1920

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