

Manual of Engineering Drawing, Fourth Edition: Technical Product Specification and Documentation to British and International Standards

By Colin H. Simmons, Dennis E. Maguire

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Manual of Engineering Drawing is a comprehensive guide for experts and novices for producing engineering drawings and annotated 3D models that meet the recent BSI and ISO standards of technical product documentation and specifications. This fourth edition of the text has been updated in line with recent standard revisions and amendments. The book has been prepared for international use, and includes a comprehensive discussion of the fundamental differences between the ISO and ASME standards, as well as recent updates regarding legal components, such as copyright, patents, and other legal considerations.

The text is applicable to CAD and manual drawing, and it covers the recent developments in 3D annotation and surface texture specifications. Its scope also covers the concepts of pictorial and orthographic projections, geometrical, dimensional and surface tolerancing, and the principle of duality. The text also presents numerous examples of hydraulic and electrical diagrams, applications, bearings, adhesives, and welding.

The book can be considered an authoritative design reference for beginners and students in technical product specification courses, engineering, and product designing.

- Expert interpretation of the rules and conventions provided by authoritative authors who regularly lead and contribute to BSI and ISO committees on product standards
- Combines the latest technical information with clear, readable explanations, numerous diagrams and traditional geometrical construction techniques
- Includes new material on patents, copyrights and intellectual property, design for manufacture and end-of-life, and surface finishing considerations

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Editorial Review

From the Back Cover

Now in its 4th edition,**Manual of Engineering Drawing** is a long-established guide for practicing and student engineers to producing engineering drawings and annotated 3D models that comply with the latest BSI and ISO standards of technical product specifications and documentation.

This new edition has been updated in line with recent standard revisions and amendments, including the requirements of BS8888 2011 and related ISO standards. Ideal for international use, it includes a guide to the fundamental differences between the relevant ISO and ASME standards, as well as new information on legal aspects such as patents and copyright, and end-of-life design considerations.

Equally applicable to CAD and manual drawing, the book includes the latest developments in 3D annotation and the specification of surface texture. Its broad scope also encompasses topics such as orthographic and pictorial projections, dimensional, geometrical and surface tolerancing, and the duality principle, along with numerous examples of electrical and hydraulic diagrams with symbols and applications of cams, bearings, welding and adhesives.

Seen by many as an essential design reference,**Manual of Engineering Drawing** is an ideal companion for students studying vocational courses in technical product specification, undergraduates studying engineering or product design, and professional engineers beginning a career in design.

About the Author
Colin H. Simmons is an international engineering standards consultant and a member of numerous BSI and ISO committees dealing with technical product documentation and specifications. He is a former practising mechanical design engineer and author of many publications on engineering drawing, product specification and standards.

Dennis E. Maguire was a design engineer and senior lecturer at Southall College, UK.

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