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	Autore	Arndt, Kurt
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2.	Record Nr.	UNINA9910511694603321
	Autore	Simmons C. H (Colin H.)
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Note generali

Description based upon print version of record.

"Technical product specification and documentation to British and International standards."--Cover.

Includes index.

Nota di contenuto

Front Cover; Manual of Engineering Drawing; Copyright Page; Contents; Preface; Acknowledgements; Chapter 1 Drawing office management and organization; Engineering drawing practices; Drawing practice and the computer (CAD: Computer aided draughting and design); Why introduce BS 8888 and withdraw BS 308?; Chapter 2 Product development and computer aided design; Computer aided draughting and design; Technical product documentation; Access into the computer network; Quality assurance; Chapter 3 CAD organization and applications; Computer and software purchase; Project development Parametric designSheet metalwork application; Pipework systems; Communicating design concepts; Chapter 4 Principles of first and third angle orthographic projection; First angle projection; Third angle projection; Projection symbols; Drawing procedure; Reading engineering drawings; Projection exercises; Straight line examples; First angle projection examples with plotted curves (Fig. 4.22); Pictorial sketching from orthographic views; Geometric solids in third angle projection; Sectional views in third angle projection; Dimensioning examples (first angle projection)

Chapter 5 Linework and letteringDrawing paper sizes; Presentation; Types of line and their application; Chain lines; Coinciding lines; Lettering; Drawing modifications; Care and storage of original drawings; Chapter 6 Three-dimensional illustrations using isometric and oblique projection; Isometric projection; Oblique projection; 7 Drawing layouts and simplified methods; Single-part drawing; Collective single-part drawings; Assembly drawings; Collective assembly drawing; Design layout drawings; Combined detail and assembly drawings; Exploded assembly drawings; Simplified drawings Machine drawingDrawing scales; Scale used in geometric construction; Abbreviations; Chapter 8 Sections and sectional views; Half sections; Revolved sections; Removed sections; Sections through thin material; Local sections; Components not drawn in section; Successive sections; Sections in two parallel planes; Chapter 9 Geometrical constructions and tangency; To bisect a given angle AOB; To bisect a given straight line AB; To bisect a given arc AB; To find the centre of a given arc AB; To inscribe a circle in a given triangle ABC; To circumscribe a circle around triangle ABC

To draw a hexagon, given the distance across the cornersTo draw a regular octagon, given the distance across corners; To draw a regular octagon, given the distance across the flats; To draw a regular polygon, given the length of the sides; Tangency; To draw a tangent to a point A on the circumference of a circle, centre O; To draw a tangent to a circle from any given point A outside the circle; To draw an external tangent to two circles; To draw an internal tangent to two circles; To draw internal and external tangents to two circles of equal diameter To draw a curve of given radius to touch two circles when the circles are outside the radius

Sommario/riassunto

The "Manual of Engineering Drawing" has long been the recognised as a guide for practicing and student engineers to producing engineering drawings and annotated 3D models that comply with the latest British and ISO Standards of Technical Product Specifications and Documentation. This new edition has been updated to include the requirements of BS8888 2008 and the relevant ISO Standards, and is

ideal for International readership; it includes a guide to the fundamental differences between the ISO and ASME Standards relating to Technical Product Specification and Documentation. Equally applicable to CAD and manual drawing it includes the latest development in 3D annotation and the specification of surface texture. The Duality Principle is introduced as this important concept is still very relevant in the new world of 3D Technical Product Specification. Written by members of BSI and ISO committees and a former college lecturer, the "Manual of Engineering Drawing" combines up to the minute technical information with clear, readable explanations and numerous diagrams and traditional geometrical construction techniques rarely taught in schools and colleges. This approach makes this manual an ideal companion for students studying vocational courses in Technical Product Specification, undergraduates studying engineering or product design and any budding engineer beginning a career in design. The comprehensive scope of this new edition encompasses topics such as orthographic and pictorial projections, dimensional, geometrical and surface tolerancing, 3D annotation and the duality principle, along with numerous examples of electrical and hydraulic diagrams with symbols and applications of cams, bearings, welding and adhesives. * The definitive guide to draughting to the latest ISO and ASME standards * An essential reference for engineers, and students, involved in design engineering and product design * Written by two ISO committee members and practising engineers.
