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Note generali	Includes index.
Nota di contenuto	Front Cover -- Manual of Engineering Drawing -- Copyright -- 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 - Design for Manufacture to End of Life -- Chapter 4 - Intellectual Property and Engineering Design -- Patents -- Designs -- Copyright -- Trademarks -- Important Points to Remember -- Chapter 5 - CAD Organization and Applications -- Computer and Software Purchase -- Project Development -- Size of Computer -- Parametric Design -- Sheet Metalwork Application -- Pipework Systems -- Communicating Design Concepts -- Materials Options -- Typical CAD Drawings and 3D Models -- Chapter 6 - Principles of First and Third Angle Orthographic Projection -- First Angle Projection -- Third Angle Projection -- Projection Symbols -- Drawing Procedure -- Reading Engineering Drawings -- Projection Exercises -- Chapter 7 - Linework and Lettering -- Drawing Paper Sizes -- Presentation -- Types of Line and Their Application -- Chain Lines -- Coinciding Lines -- Lettering -- Minimum Character Height for Capital Letters and Numerals -- Drawing Modifications -- Care and Storage of Original Drawings -- Chapter 8 - Three-dimensional Illustrations Using Isometric and Oblique Projection -- Isometric Projection -- Oblique Projection -- Chapter 9 - 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 Drawings -- Drawing Scales -- Scale Used in Geometric Construction -- Abbreviations -- Chapter 10 - 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 11 - Geometrical Constructions and Tangency -- To Bisect a Given Angle AOB (Fig. 11.1) -- To Bisect a Given Straight Line AB (Fig. 11.2) -- To Bisect a Given Arc AB (Fig. 11.3) -- To Find the Centre of a Given Arc AB (Fig. 11.4) -- To Inscribe a Circle in a Given Triangle ABC (Fig. 11.5) -- To Circumscribe a Circle Around Triangle ABC (Fig. 11.6) -- To Draw a Hexagon, Given the Distance Across the Corners -- To Draw a Hexagon, Given the Distance Across the Flats (Fig. 11.8) -- To Draw a Regular Octagon, Given the Distance Across Corners (Fig. 11.9) -- To Draw a Regular Octagon, Given the Distance Across the Flats (Fig. 11.10) -- To Draw a Regular Polygon, Given the Length of the Sides (Fig. 11.11) -- Tangency -- To Draw a Tangent to a Point A on the Circumference of a Circle, Centre O (Fig. 11.13) -- To Draw a Tangent to a Circle From Any Given Point A Outside the Circle (Fig. 11.14) -- To Draw an External Tangent to Two Circles (Fig. 11.15) -- To Draw an Internal Tangent to Two Circles (Fig. 11.16) -- To Draw Internal and External Tangents to Two Circles of Equal Diameter (Fig. 11.17) -- To Draw a Curve of Given Radius to Touch Two Circles when the Circles Are Outside the Radius (Fig. 11.18) -- To Draw a Curve of Given Radius to Touch Two Circles When the Circles Are Inside the Radius (Fig.

11.19) -- To Draw a Radius to Join a Straight Line and a Given Circle (Fig. 11.20) -- To Draw a Radius Which is Tangential to Given Straight Lines (Fig. 11.21).
Chapter 12 - Loci Applications -- Methods of Drawing an Ellipse -- The Involute -- Archimedean Spiral -- Right-hand Cylindrical Helix -- Right-hand Conical Helix -- The Cycloid -- The Epicycloid -- The Hypocycloid -- Chapter 13 - True Lengths and Auxiliary Views -- Chapter 14 - Conic Sections and Interpenetration of Solids -- To Draw an Ellipse from Part of a Cone -- To Draw a Parabola from Part of a Cone -- To Draw a Rectangular Hyperbola from Part of a Cone -- Interpenetration -- Chapter 15 - Development of Patterns from Sheet Materials -- Chapter 16 - Dimensioning Principles -- Dimensioning of Features not Drawn to Scale -- Chain Dimensioning and Auxiliary Dimensioning -- Parallel Dimensioning -- Running Dimensioning -- Staggered Dimensions -- Dimensioning Circles -- Dimensioning Radii -- Dimensioning Spherical Radii and Diameters -- Dimensioning Curves -- Dimensioning Irregular Curves -- Unidirectional and Aligned Dimensions -- Angular Dimensions -- Tapers -- Dimensioning Tapers -- Dimensioning Two Mating Tapers -- Dimensioning Chamfers -- Dimensioning Squares or Flats -- Dimensioning Holes -- Dimensioning Counterbores -- Dimensioning Countersunk Holes -- Dimensioning Spotfaces -- Dimensioning for Manufacture -- Chapter 17 - Screw Threads and Conventional Representations -- Screw Threads -- ISO Metric Threads -- Unified Threads -- Threads for Power Transmission -- Draughting Conventions Associated with Threads -- Multiple Threads -- The Application of Thread Conventions -- Tapping Drill -- Clearance Drill -- Chapter 18 - Nuts, Bolts, Screws, and Washers -- Drawing Nuts and Bolts -- Approximate Construction for Nuts and Bolts (Figs 18.2 and 18.3) -- Socket Head Screws Manufactured to BS EN ISO 4762 and BS 3643-2 -- ISO Metric Socket Cap Screws (Dimensions in Table 18.2) -- ISO Metric Hexagon Socket Shoulder Screws (Dimensions in Table 18.3).
ISO Metric Hexagon Socket Button Head Screws (Dimensions in Table 18.4) -- ISO Metric Socket Countersunk Head Screws (Dimensions in Table 18.5) -- ISO Metric Hexagon Socket Set Screws (Dimensions in Table 18.6) -- Machine Screws -- 'Posidriv' Machine Screws, Countersunk and Raised Countersunk Head (Dimensions in Table 18.7) -- 'Posidriv' Machine Screws, Pan Head (Dimensions in Table 18.8) -- Slotted Machine Screws, Countersunk and Raised Countersunk Head (Dimensions in Table 18.9) -- Slotted Machine Screws, Pan Head (Dimensions in Table 18.10) -- Slotted Machine Screws, Cheese Head (Dimensions in Table 18.11) -- Machine Screw Nuts -- Wing Nuts -- Locking and Retaining Devices -- Slotted Nuts and Castle Nuts -- Simmonds Locknut -- Spring Washers -- Shakeproof Washers -- Wire Locking -- Tab Washers -- Locking Plates -- Taper Pins and Parallel Pins -- Split Cotter Pins -- Locking by Adhesives -- Peening -- Thread-cutting Screws -- Chapter 19 - Keys and Key Ways -- Sunk Keys -- Woodruff Keys -- Dimensioning Keyways (Parallel Keys) -- Chapter 20 - Worked Examples in Machine Drawing -- Bushed Bearing Bracket -- Drill Table -- Cam Operated Clamp -- Plug Cock -- Air Engine -- Toolbox -- Solution Notes -- Chapter 21 - Limits and Fits -- Elements of Interchangeable Systems (Fig. 21.9) -- Unilateral and Bilateral Limits -- Bases of Fits -- Selected ISO Fits - Hole Basis (Extracted from BS 4500) -- Interpretations of Limits of Size in Relation to Form -- Chapter 22 - Geometrical Tolerancing and Datums -- Geometrical Tolerances -- Applications -- Advantages -- General Rules -- Theoretically Exact Dimensions (TEDs) -- Definitions -- Method of Indicating Geometrical Tolerances on Drawings -- Methods

of Applying the Tolerance Frame to the Toleranced Feature -- Procedure for Positioning Remarks which are Related to Tolerance. The Application of Tolerances to a Restricted Length of a Feature -- Tolerance Zones -- Projected Toleranced Zone -- Datums and Datum Systems -- Datums -- Methods of Specifying Datum Features -- Datum Systems -- Common Datums -- Datum Targets -- Dimensioning and Tolerancing Non-rigid Parts -- Chapter 23 - Application of Geometrical Tolerances -- Straightness -- Flatness -- Circularity (Roundness) -- Cylindricity -- Profile Tolerance of a Line -- Profile Tolerance of a Surface -- Parallelism -- Perpendicularity (Squareness) -- Angularity -- Circular Run-out -- Total Run-out -- Position -- Concentricity and Coaxiality -- Symmetry -- Chapter 24 - Maximum Material and Least Material Principles -- Maximum Material Condition (MMC) -- Least Material Condition (LMC) -- Maximum Material Condition Related to Geometrical Form -- Maximum Material Condition Applied to Straightness -- Maximum Material Condition Applied to Squareness -- Maximum Material Condition Applied to Position -- Maximum Material Condition Applied to Coaxiality -- Maximum Material Condition and Perfect Form -- The Application of Maximum Material Condition and its Relationship with Perfect Form and Squareness -- The Application of Maximum Material Condition and its Relationship with Perfect Form and Coaxiality -- The Application of Maximum Material Condition to Two Mating Components -- Chapter 25 - Positional Tolerancing -- Theoretically Exact Dimensioning (TED) (True-position) -- Typical Product Requirement -- Chapter 26 - Surface Texture -- Graphical Symbols to Indicate Surface Texture -- Expanded Graphical Symbols -- Complete Graphical Symbols -- 'All Surfaces Around a Workpiece' Graphical Symbol -- Composition of Complete Graphical Symbols for Surface Texture -- Mandatory Positions for Complementary Requirements -- Chapter 27 - Surface Finish and Corrosion of Metals -- Surface Finish.
Corrosion of Metals.

Sommario/riassunto

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 techniquesIncludes new material on patents, copyrights and intellectual property, design for manufacture and end-of-life, and surface finishing considerations.