



Engineering Graphics for Design and Analysis (Understanding the Complete Role the Graphic Language Plays in the Conception, Analysis and Communication of Ideas)

Robert H. Hammond, Carson P. Buck, William B. Rogers, Gerald W. Walsh Jr., Hugh P. Ackert

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This book reflects the growing needs of the engineer for a greater breadth of comprehension of graphics as a powerful tool in the design process. Its principal purpose is to provide an understanding of the complete role the graphic language plays in the conception, analysis, and communication of ideas. Emphasis is on the theory of projection and on analysis rather than merely on the techniques and skills required in preparing a production drawing. CONTENTS: 1) Intro-Historical Development 2) Equipment and Techniques: Drawing with Instruments; Sketching; Lettering. 3) Projection Drawing: Projection Theory; Orthographic View Construction; Conventions in Drawing; Pictorial Representation. 4) Spatial Analysis: Basic Spatial Relations; Angular Spatial Relations; Special Problems Involving Spatial Relations; Vector Geometry; Intersections and Developments. 4) Graphical Mathematics: Graphs and Diagrams; Graphical Arithmetic and Algebra; Graphical Calculus; Nomographs-Graphic Analog Computers; Empirical Equations. 5) Applications: Drawings for Design and Production; Additional Applications. 6) Appendix: Plotting Problems and Tables.

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