

Ref. 621.3815 HUN 2d ed.

CONTENTS

Part I. Physics of Transistors, Diodes, and Photocells

Section 1. Transistor Characteristics	1-3
Section 2. Electronic Conduction in Solids	2-1
Section 3. Rectification in Solids	3-1
Section 4. Transistor Action	4-1
Section 5. Photoconductivity and Photovoltaic Cells	5-1

Part II. Technology of Transistors, Diodes, and Photocells

Section 6. Preparation of Semiconductor Materials	6-3
Section 7. Methods of Preparing PN Junctions	7-1
Section 8. Metal-Semiconductor Contacts	8-1
Section 9. Encapsulation	9-1
Section 10. Device Design Considerations	10-1

Part III. Circuit Design and Application for Transistors, Diodes, and Photocells

Section 11. Low-frequency Amplifiers	11-1
Section 12. High-frequency and Video Amplification	12-1
Section 13. D-C Amplifiers	13-1
Section 14. Transistor Oscillators	14-1
Section 15. Transistor Switching Circuits	15-1
Section 16. Microwave Applications	16-1
Section 17. Power Supplies	17-1

Part IV. Reference Material

Section 18. Methods of Circuit Analysis	18-1
Section 19. Measurement of Semiconductor Device Parameters	19-1
Section 20. Measurements of Semiconductor Parameters	20-1
Bibliography	1
Author Index	1
Subject Index	7