TABLE OF CONTENTS

| er-Coupled Amplifiers | | |
|--------------------------|--|--|
| Carrier Transformers | | |
| Fransformers | | |
| nce | | |
| Transformers | | |
| | | |
| cteristics of High- | | |
| nsformers | | |
| ·s | | |
| formers | | |
| ners and Inductors | | |
| ers | | |
| S | | |
| ransistors | | |
| unication Circuits | | |
| | | |
| ansformers | | |
| sformer Core Materials | | |
| | | |
| ons and Cores | | |
| Amplifiers | | |
| cation Transformers | | |
| nsformers | | |
| osed Direct Current | | |
| ation | | |
| ing | | |
| ing | | |
| elding | | |
| itions that Affect | | |
| ration and Life | | |
| itions | | |
| 17 1 - A | | |
| s and Inductors | | |
| nsformers | | |
| ent of Transformers | | |
| Commonatumo a | | |
| Temperatures | | |
| al Construction | | |
| al Construction | | |
| and Semiconductor Diodes | | |
| | | |
| Transformers | | |
| Tansformers | | |
| | | |

Current Trends
Factors Affecting Selection of Connectors

Connector Functions Connector Types Number of Contacts Accessories **Current Rating** Special Connectors Voltage **Potted Connectors Grounding Provision** Waterproof Connectors Contact Design Internal Connectors Contact Resistance **Audio Connectors** Undesired Coupling (Crosstalk) Nonstandard Connectors Mechanical Strength Miniature Connectors Dielectric Materials **Printed Circuit Connectors** Polarization Rack and Panel Connectors Sealing **Umbilical Connectors Operating Temperature Environmental Effects on Connectors Connector Types Altitude Effects** Power and Signal or Control Connectors Radiation Effects D-C, Low-Frequency A-C, Audio, and R-F Moisture Precautions Connectors Temperature Military Specifications **Current Carrying Ability** Nonmilitary Specifications and Standards R-F Connectors AN Connectors **Pulse Connectors** AN Finish Armed Services Listings Class A Connectors **Electron Tube Sockets** Class B Connectors Octal Sockets Sealed Types Miniature Sockets Class E Connectors Subminiature Sockets Class K Connectors Small and Medium Sockets Sealed Receptacles Military Specifications Shell Material Effects of Environment on Sockets Receptacle Mounting Mounting Considerations Mechanical Considerations **Definitions** Wire and Cable Constituents Diameters Conductor Flexibility Tensile Strength Insulation Working Space Temperature Military Specifications Pressure or Altitude Other Specifications Moisture or Other Atmospheric Contaminants Do's and Don'ts Shields General Information **Electrical Considerations** Selecting Connectors and Hardware **Current Rating** Ease of Use Voltage Rating Harness Lacing Capacitance Lacing Cord Sheath Currents Developments and Trends Grounding References Insulation Resistance Values Bibliography Galvanic Action (Electrolysis) CHAPTER 4. TERMINALS: Lugs, Insulators, Terminal Boards, Headers...... 119 MIL-T-15659, Terminals; Lug, Solder Type, Wire Terminals Insulation-Supporting-Sleeve Terminals Copper **Specifications** Terminal Selection MIL-T-7928C(ASG), Terminals; Lug and Terminal Boards Specifications Splice, Crimp Style, Copper MIL-T-7099B, Terminals; Lug, Crimp Style, MIL-T-16784A(Ships), Terminal Boards for Aluminum Aircraft Cable Feedthrough Terminals Headers Crimping Tools Standoff Terminals Other Solderless Terminal Specifications

Bibliography

| CHAPTER 5. TUBE SHIELDS | | | | |
|--|---|--|--|--|
| Electrostatic Shielding Mechanical Clamping Heat Removal | Heat-Dissipating Shields Octal Tube Shields | | | |
| Thermal Problems in Electron Tubes | Do's and Don'ts of Tube Shield Application References | | | |
| Subminiature Shields | Bibliography | | | |
| Miniature Shields | Bibliography | | | |
| CHAPTER 6. HARDWARE: Knobs, Dials, Ind | licating Lights, Flexible Shafting, Fasteners 147 | | | |
| Control Knobs | Physical Characteristics | | | |
| Types of Knobs | Electrical Properties | | | |
| Spacing on Control Panel | Military Specification | | | |
| Torque | Air Force Test Requirements | | | |
| Knob Shape | Application Notes | | | |
| Knob-to-Pointer Movement Ratios | Illuminated Plates, Panels, and Knobs | | | |
| Military Specifications | Flexible Shafting | | | |
| Military Standards | Application of the Flexible Shaft | | | |
| Dials | Selecting the Shaft | | | |
| Scale-Type Indicators | Military Specification | | | |
| Counter-Type Indicators | Fasteners | | | |
| Indicating-Light Assemblies | Self-Locking Nuts | | | |
| Description | Military Specifications | | | |
| Military Specification | Fractional-Turn Fasteners | | | |
| Incandescent Lamps | Snap Slides | | | |
| Physical Characteristics | Captive Screws and Nuts | | | |
| Electrical Properties | Mounting Clamps | | | |
| Specifications | References | | | |
| Glow Lamps | Bibliography | | | |
| Spectral Characteristics | | | | |