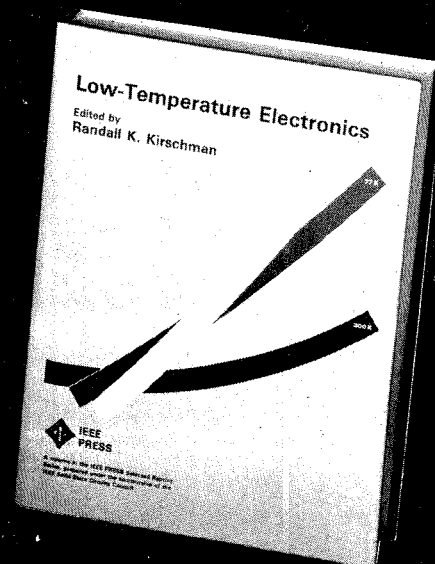


# **NEW** from the IEEE PRESS

## **LOW-TEMPERATURE ELECTRONICS**

*The first complete sourcebook on the subject of low-temperature electronics*



**LOW-TEMPERATURE ELECTRONICS. 504 pages.**  
**ISBN-0-87942-206-8. IEEE Product No.: PC01974.**  
**List \$63.50; IEEE Member \$47.65**

As electronics has advanced in technological sophistication, interest in low-temperature electronics has increased substantially. However, the engineer wishing to acquire a background in this field has had no sourcebook to turn to as there are no comprehensive books on the subject, and few survey articles which are up-to-date.

**LOW-TEMPERATURE ELECTRONICS** is the first book to provide an extended survey of the characteristics and applications of electronic devices at low temperatures for both digital and analog uses.

Topics include: materials, systems, switching, noise, FETs, modulation-doped devices, bipolars, microwave applications, commercial devices, semiconductor lasers, and CCDs.

As a guide to the papers, each part of the book begins with a specially written introduction by an expert in the field. Numerous references appear in both the reprint papers and in the specially written material.

### **ORDER YOUR COPY TODAY**

Sponsored by the IEEE Solid-State Circuits Council, **LOW-TEMPERATURE ELECTRONICS** is an important resource for research engineers and scientists who wish to acquire a foundation of knowledge in this fast-moving field. Order your copy today while supplies are still plentiful.

#### **CONTENTS**

Preface; Part I: General Information; Part II: Materials, Devices, and Systems; Part III: MOS Devices and Switching Behavior; Part IV: Electronic Phenomena in MOS Devices; Part V: Modulation-Doped Heterostructures and Devices; Part VI: Noise Behavior of FET's; Part VII: Evaluation and Application of Commercial Devices; Part VIII: Microwave Devices; Part IX: Bipolar Devices; Part X: Special Purpose and Experimental Devices; Author Index; Editor's Biography.

#### **ABOUT THE EDITOR**

Randall K. Kirschman has been in private practice since 1982, consulting to government and industry. He received the B.S. in engineering from the University of California, Berkeley, and the M.S. and Ph.D. degrees from the California Institute of Technology.

**TO ORDER:** Include full title and product number. Make check payable to IEEE in U.S. dollars drawn on a U.S. bank. VISA, MasterCard/Eurocard, American Express, and Diners Club orders also accepted. Mail your order to IEEE Service Center, 445 Hoes Lane, P.O. Box 1331, Piscataway, NJ 08855-1331, U.S.A., or call (201) 981-1393.

#### **Postage & Handling Charges**

| For order totaling:        | Add:    |
|----------------------------|---------|
| \$ 1.00 to \$ 50.00 .....  | \$ 4.00 |
| \$ 50.01 to \$ 75.00 ..... | \$ 5.00 |
| \$ 75.01 to \$100.00 ..... | \$ 6.00 |
| \$100.01 to \$200.00 ..... | \$ 8.00 |
| over \$200.00 .....        | \$15.00 |

