positive comments from teachers and students, presenters who feel that they reached the students, and administrators from industry and education who want to continue the program.

Students need a reason to learn. Schools need to see what a valuable resource their local technical community can be. Industry needs to see how easy it is to help. And to the little girl who wrote "I am glad jat you got to be her"—I am glad I got to be there too!

CATHERINE WAGNER

Acknowledgments

This work was prepared by Oak Ridge National Laboratory, Oak Ridge, Tennessee 37831-6285, managed by Martin Marietta Energy Systems, Inc. for the U.S. Department of Energy under contract DEAC05-84OR21400.

Catherine Wagner holds a degree in Education and is the Precollege Education Coordinator for the Engineering Technology Division (ETD) at Oak Ridge National Laboratory. Technology in Education: A Guidebook for Developing a Science and Math Education Support Program, ORNL TM-12145, details ETD's education program and serves as an easy-to-use guide for any technical organization or school that would like to develop an individualized science and math education support program. Limited copies are available by writing to Catherine Wagner, Oak Ridge National Laboratory, Building 9102-1/MS 8038, P. O. Box 2009, Oak Ridge, Tennessee 37831-8038.

To receive additional information on how you can get involved in enhancing K-12 science education, circle number 120 on the Reader Service Card.

KEY ADVANCES IN MATERIALS SCIENCE

ELECTRON MICRODIFFRACTION

by J.C.H. Spence and J. M. Zuo

Electron Microdiffraction features the most recent theoretical and experimental developments and details the latest advances in the applications of the transmission electron microscope. The authors thoroughly discuss space-group determination by CBED, structure factor measurement by CBED, coherent CBED (holograms, ronchigrams) from defects using subnanometer probes, and strain measurement using HOLZ line shifts. This unique text discusses historical aspects of the field, basic principles, and current progress in applications, experimental techniques, computer algorithms, and instrumentation.

0-306-44262-0/382 pp./ill./1992/\$49.50

NONDESTRUCTIVE CHARACTERIZATION OF MATERIALS IV

edited by Clayton O. Ruud, Jean F. Bussière, and Robert E. Green, Jr.

This comprehensive collection of sixty papers surveys the applications of NDC to the measurement of the physical and mechanical properties of materials, such as microstructure, residual stress, texture, dislocation density, and distribution.
0-306-44047-4/proceedings/528 pp./ill./1991
\$125.00

Book prices are 20% higher outside US & Canada.

PHYSICS OF LOW-DIMENSIONAL SEMICONDUCTOR STRUCTURES

edited by Paul Butcher, Norman H. March, and Mario P. Tosi

This authoritative volume surveys the physics of heterostructures containing low-dimensional electron and hole gases. Contributors analyze the electronic and phonon structure of quantum wells, superlattices, quantum wires, and quantum dots; and explore diffusive, mesoscopic, and ballistic electron transport. A volume in the series Physics of Solids and Liquids.

0-306-44170-5/576 pp. + index/ill./1992/\$120.00

REVIEW OF PROGRESS IN QUANTITATIVE NONDESTRUCTIVE EVALUATION

Volume 12

edited by **Donald O. Thompson** and **Dale E. Chimenti**

This exhaustive two-part volume covers the latest advances in NDE research. Part A features the development of standard NDE techniques, emerging inspection technologies, interpretive signal processing and image analysis, and sensors and new techniques. Part B covers engineered materials; material properties; nonlinearity, deformation, and fracture; civil structures and materials; and systems, process control, and reliability.

0-306-44483-6/proceedings/2,376 pp. + index ill./1993/\$345.00

Bound in two volumes



PLENUM PUBLISHING CORPORATION

233 Spring Street, New York, NY 10013-1578 Telephone orders: 212-620-8000/1-800-221-9369

Circle No. 22 on Reader Service Card.

Advertisers in This issue:

ASM International	69
Burleigh Instruments, Inc.	21
Digital Instruments	6
EDAX International	19
Elsevier Science Publishers	66, 68
The Gem Dugout	7
High Voltage Engineering/ Europa BV inside	front cover
Huntington	back cover
IOP Publishing	26
Lake Shore Cryotronics, Inc.	22
MKS Instruments, Inc.	3
Plenum Publishing Corp.	64
Princeton Gamma-Tech, Inc.	14
Quantum Design	13
Rexham Industrial	12
Rudolph Research	8
Sandia National Laboratory	26
SPEX Industries, Inc.	11
TopoMetrix inside	back cover
University of California, Berkeley	41
VCH	18, 62
Virginia Semiconductor, Inc.	10
Voltaix, Inc.	9

For free information about the products and services offered in this issue, fill out and mail the Reader Service Card, or FAX it to (312) 922-3165.