

## RESOURCES

*A summary of new products and services for materials research...*

**Particle Size Analyzer:** Based on the principle of settling in either a gravitation or centrifugation mode using x-ray detection, the Brookhaven Instruments model BI-XDC provides fast, accurate, and quantitative measurements of size from 0.01 to 100 microns in as little as three minutes. No calibration or optical corrections are necessary. A digitally controlled rotation speed ensures repeatable start times and dispersion stability. The instrument can be used in quality control and R&D labs and is suitable for abrasives, ceramics, metal oxides, and metal powders.

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**ASTM Standard Definitions:** Seventh edition contains over 13,000 definitions including many not commonly found in dictionaries. It helps make faster, better use of ASTM standards and shows how a given technical field uses its terminology. Each definition was written by technical people active in the field, reflecting the sense in which the field uses its terms. New to the seventh edition: "Part E: Preparation and Use of Terminology in ASTM Standards" from the ASTM document *Form and Style for ASTM Standards*, and a list (title/designation number) of all ASTM terminology standards. 560 pages, soft cover.

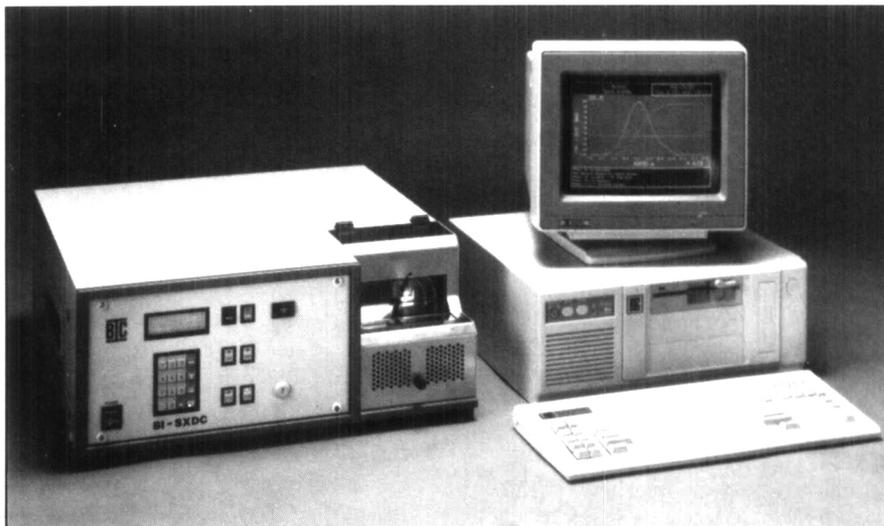
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**Thin Film Coatings:** Thin films available from CVC Products are described in a color brochure along with their potential applications. For example, high  $T_c$  superconductors, ferroelectrics, oxides, nitrides, hard and soft magnetics, low stress tungsten and selenides, and silicides can be deposited on a variety of substrates. CVC also maintains an inventory of target materials in addition to deposition capabilities. CVC also provides thin film coating services and comprehensive thin film analysis.

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**Multiple Film Deposition Monitor:** The QXM500 thin film deposition monitor from the Kurt J. Lesker Company measures a film's thickness and deposition rate using the 6 MHz quartz crystal technique. Data for up to eight films can be stored in memory and are fully protected against any power failure. Two sensor channels allow the use of a backup or second primary sensor head. The user-friendly front panel provides an easy-to-read display and a simple data entry format. The QXM500 is available as a free-standing or rack-mounted unit.

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Particle Size Analyzer

### Interactive Satellite Training Series on Hazardous/Radioactive Waste Management:

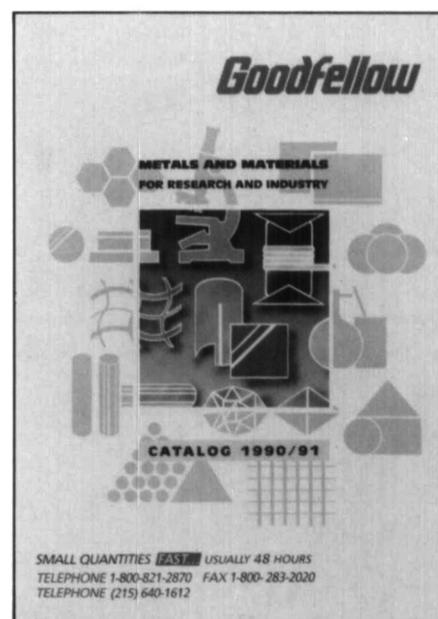
A live, interactive satellite training series on hazardous/radioactive waste management, will be broadcast beginning in April 1991. Eleven programs will be presented by the Waste-management Education and Research Consortium (WERC) composed of New Mexico State University, the University of New Mexico, New Mexico Institute of Mining and Technology, Navajo Community College, and Sandia National and Los Alamos National Laboratories. Each program will emphasize environmentally sound waste management, methods of waste remediation, waste minimization, regulations and laws pertaining to waste, and scientific and technological aspects of waste. The audience will be able to ask the presenters questions during the live broadcasts which will be transmitted via C-Band and KU-Band satellites.

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### Sputtering System for Low Stress Tungsten Processing:

The CVC 611 Load Lock Sputtering System deposits substrates with low stress materials and uses rf diode sputtering to maintain low stress on the film during processing. Tungsten can be deposited on silicon membranes for applications in x-ray lithography, and film stresses of better than  $1 \times 10^8$  dynes/cm<sup>2</sup> (compressive) are achieved. The deposition system utilizes state-of-the-art real-time multitasking processing. Sputter-up deposition is featured for particulate control.

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Catalog of Metals and Materials

**Catalog of Metals and Materials:** Free 500-page catalog of metals and materials, including more than 3,600 items, with technical specifications and comparative data is available from Goodfellow. Aimed at researchers and industry, the catalog features pure metals and alloys, polymers, ceramics, composites, and honeycombs, all in a wide selection of forms and sizes. Small quantities are a specialty and 48-hour delivery is standard.

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