Measuring Microscopes

The series UFM includes monocular and binocular models that have the ability to make measurements of length, width, and depth. Measurements may be made in English or metric units. The microscopes are equipped with large flat-fields. They have a special 3X objective and a wide-field 10X ocular standard with accessory 5X and 40X objectives optional. Illumination systems are built in to provide vertical lighting for opaque objects, transmitted light, and incident oblique illumination. Also available are a high-intensity quartz-iodide illuminator and projection screen, attachments for photomicrography, and other accessories. Unitron Instrument Company. Circle No. 130 on Readers’ Service Card.

Teflon Programmed Sampling Pump

A nonreactive Teflon, gas-sampling pump has been equipped with a programmable 7-day, 24-hour timer. The device may be set to draw samples of selected duration of 15 minutes or more at designated times and frequencies. Only reinforced Teflon comes in contact with the sample. The pump is reliable at pressures from those at sea level to 2 millibars and develops suction which is adjustable up to 3 inches of mercury. The samples are taken at a flow rate of about 150 milliliters per minute which is constant to within ±1.5 percent of mean value. The unit weighs less than 7 pounds and operates on standard electric current. Science Pump Corporation. Circle No. 134 on Readers’ Service Card.

Rotated Cells for Coulometry

Model C2000 ElectRoCell performs an analysis in 10 minutes including aliquoting, sparging, and electrolysis. The rotated mercury and platinum cells offer large ratio of electrode surface to sample volume. Outgassing is rapid; oxygen may be removed from the sample in as little as 20 seconds. The ElectRoCell may be controlled manually or automatically. The device has applications in coulometry, anodic stripping voltammetry, and polarography. The rotated mercury cell is standard and the platinum cell is optional. McKee-Pedersen Instruments. Circle No. 131 on Readers’ Service Card.

Light Guides for Lasers

An articulated light guide is available for attachment to lasers. It consists of modular mirror holders and rotating tubes and provides a flexible pathway for directing laser light and optical viewing fields. The optical axis of the assembly corresponds to the axis of rotation to maintain the light beam in the center of the guide system. Length and bore of the units are optional. Standard mirrors are front-surface, multiple-layer mirrors with high reflectivity at specified wavelengths. Space Sciences Division, Whittaker Corporation. Circle No. 132 on Readers’ Service Card.

Contact Angle Analyzer

Studies of surface properties such as surface treatment, roughness, effect of additives, printability, and adhesion are facilitated with a new contact angle analyzer. The model includes a drop generator that controls drop size with high precision. The device is a tabletop projector with wide-angle optics. A tungsten-halogen light source is equipped with a dichroic filter to remove heat. The image of the liquid drop in contact with the surface studied is projected at 40X on a frosted screen that has a protractor scale and etched horizontal and vertical scales. Imass, Incorporated. Circle No. 133 on Readers’ Service Card.

Optical Emission Spectrometer

The model 310 optical emission spectrometer rapidly analyzes ferrous or nonferrous alloys and reads directly in percent concentration. Model 310 employs cylindrical mirrors to sample discharge for all wavelengths. The focal length is 1.5 meters and the capacity is up to 60 photomultiplier tubes. The available spectral range is from 1900 to 9000 angstrom units. The standard readout is on a cathode-ray tube console in digital form. Options include a teletypewriter printout and interfacing and fully computerized operation. Labtest Equipment Company. Circle No. 135 on Readers’ Service Card.

Literature


Pharmacia Systems for Column Chromatography illustrates modular systems for chemical analysis including the chromatograph, columns, flow adapters, valves, connectors reservoirs, mixers and pumps. Pharmacia Fine Chemicals. Circle No. 141 on Readers’ Service Card.

Fourier Transform Analyzers (SAF-470) lists features, concepts, principles of operation and specifications of this signal analyzing device. Signal Analysis Operations, Test Instrument Division, Honeywell, Incorporated. Circle No. 143 on Readers’ Service Card.

ABEM Geophysical Instruments is a short catalog for mining, hydro, civil engineering, and exploitation geophysics including seismic apparatus. Atlas Copco ABEM AB. Circle No. 140 on Readers’ Service Card.

FMI Lab Pumps describes a line of valveless, variable, and reversible pumps for handling solutions, suspensions, slurries, and gases in the laboratory. Fluid Metering, Incorporated. Circle No. 144 on Readers’ Service Card.

Newly offered instrumentation, apparatus, and laboratory materials of interest to researchers in all disciplines in academic, industrial, and government organizations are featured in this space. Emphasis is given to purpose, chief characteristics, and availability of products and materials. En- dorsement by Science or AAAS is not implied. Additional information may be obtained from the manufacturers or suppliers named by circling the appropriate number on the Readers’ Service Card (see pages 122A and 186C) and placing it in the mailbox. Postage is free.—RICHARD G. SOMMER
PRODUCTS and MATERIALS

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