PRODUCTS and MATERIALS

Scanning Spectrophotometer

The model 200 (Fig. 1) features scanning speeds up to 240 nanometers per minute. It has a variable band pass over the range from 0.2 to 4 nanometers. Stray light is less than 0.1 percent at 220 nanometers. This ultraviolet-visible device may be used with cylindrical long-path cells up to 100 millimeters, with microcells or flow cells and with an integrating sphere to allow measurements of reflectance. The device will also accommodate an automatic sampling device, an automatic zero feature, derivative scanning, an X-Y recorder interface, and a wavelength programmer. Perkin-Elmer Corporation, Instrument Division. Circle 809.

Data Storage System

Diskette (Fig. 2) is available in 315K-byte (single drive) or 630K-byte (dual drive) configurations and includes a controller for up to four drives, a power supply, and necessary cabling and terminations. Software support for the system as an input-output device is provided. The system uses low-cost, flexible recording media introduced through a slot on the front of the drive unit. A head positioning system controls the radial positioning of the read/write head to any of 77 tracks. Data General Corporation. Circle 810.

Drafting System

System 1 accepts a freehand sketch as input. The sketch is entered into a computer through a data tablet. The computer performs a layout and produces a final drawing. Changes may be plotted and corrected drawings may be generated easily. The operator uses a Symbol Selection Sheet and a Keyboard and Control Panel to enter the text. The advantage of this system is that the engineer's rough sketch does not have to be laid out on a grid before it is digitized or constructed on a panel. Processing routines standardize symbol size and lettering, straighten lines, and move symbols and lines to produce a final sketch. Design Aids Incorporated. Circle 808.

Polarizing Microscope

Model POH-3 includes a 6-volt, 15-watt transformer; a centered flat-filament lamp; a solid-state dimmer control with its own on-off switch; and a voltmeter. The base is larger and more stable than the previous model in this line. Bulbs are easily replaced by sliding the lamp socket assembly out toward the rear of the base. In place of the field diaphragm and centerable collector lens, there is a large fixed diffusion filter above which is a receptacle for 45-millimeter filters or a mirror and fork assembly. Ehrenreich Photo-Optical Industries, Incorporated. Circle 811.

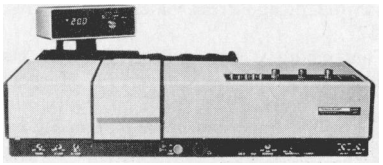

Fig. 1. The Perkin-Elmer model 200 double beam ultraviolet/visible spectrophotometer displays results in absorbance units, concentration, and percent transmittance.

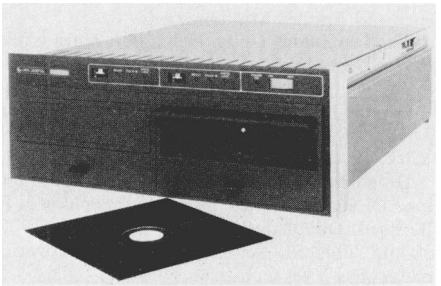

Fig. 2. Data General's Diskette uses a flexible recording medium. A single controller can accommodate four-drive units at 315K bytes each for a total of 1.26 megabytes per controller.

Fraction Collector

The PF-30 is designed for preparative use. It will collect up to 30 fractions of any size. There is an internal control which is programmable for 1- to 99-minute collection intervals per fraction. It is controllable from an external source. The unit is free-standing; its design permits the use of a variety of collection vessels. Components in contact with the liquid stream are easily dismantled for cleaning. The PF-30 provides event-marker output for all types of recorders. Flow rates of up to 2.5 liters per minute may be achieved. Pharmacia Fine Chemicals. Circle 816.

Literature

Photon Counting is a catalog that explains the measurement of low-level signals from photomultipliers and electron multipliers. Princeton Applied Research Corporation. Circle 801.

Arc Source Catalog lists xenon and mercury short-arc lamps and discusses applications. Oriel Corporation of America. Circle 804.

No. 903 Specimen Collection Paper features scientific abstracts to illustrate clinical uses of the products. Schleicher & Schuell, Incorporated. Circle 805.

1975 Catalog is available from the American National Standards Institute. It includes fields from acoustics to information systems to nuclear to welding and wood products. Circle 806.

Thermix Hot Plate-Stirrer is the subject of a product bulletin. Fisher Scientific Company. Circle 807.

Molecular Filtration Manual describes the concentration, desalting, purification, and fractionation of macromolecules, colloids, and viruses. Millipore Corporation. Circle 812.

Dissolved Oxygen/BOD Instrument Catalog includes probes and accessories for the portable electronic instruments listed. Yellow Springs Instrument Company. Circle 813.

Instruments for Water Pollution Monitoring is devoted to a complete line of laboratory, field, and process control instrumentation. Ionics, Incorporated. Circle 814.

FX60 is a Fourier transform, nuclear magnetic resonance spectrophotometer. It is the subject of a 24-page brochure. JEOL Analytical Instruments, Incorporated. Circle 815.

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. Endorsement 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 (on pages 90A and 154A) and placing it in the mailbox. Postage is free. RICHARD G. SOMMER

Data Storage System

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