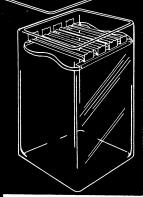
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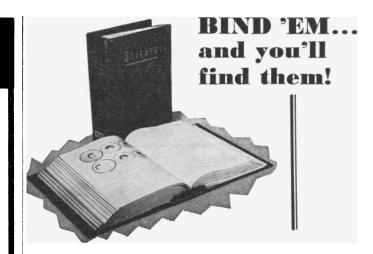
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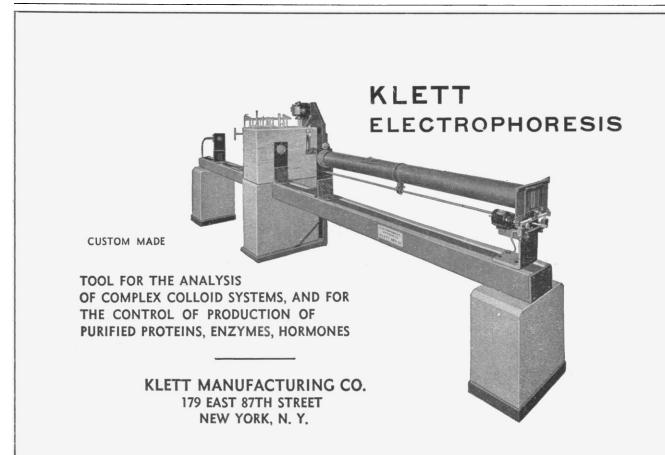
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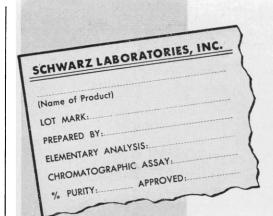
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Equipment News

- ELECTRON DIFFRACTOGRAPH can be used in structural studies for direct observation or photographic recording of electron diffraction patterns of surfaces and thin layers. The instrument utilizes a metal discharge tube with a cold cathode. A beam 10 µ in diameter is accelerated through a variable potential of 20 to 50 kv toward an anode diaphragm in a selfcentering cone, which permits an optical line width of more than 100 µ. Specimen temperature, monitored by a thermocouple, can be increased to 1000° C. The observation chamber has three viewing ports, with a pivotable fluorescent screen. Two electromagnetic lenses of variable focal length make it possible to focus on the fluorescent screen for powder diagrams, on the sample for smallbeam diffraction, and above the sample for shadow microscopy. Magnified images of the sample and of reflections can also be obtained. (Norden-Ketay Corp., Dept. Sci., Snow and Union Sts., Boston, Mass.)
- CATALOG illustrates and describes items for determining moisture quantity in any granular, solid, liquid, or semiliquid material. Listed are moisture tellers, speed ovens, fan-cooled desiccators, and accessory items such as balances, weights, sample pans, and drying dishes. (Harry W. Dietert Co., Dept. Sci., Roselawn Ave., Detroit 4, Mich.)
- WATER CONDITIONER that is designed to prevent formation of scale in boiler, airconditioning, and other heat-transfer systems subjects flowing water to alternating magnetic fields. The unit consists of two sections, a dispersing cell and a homogenizing chamber; it contains no moving parts. Crystallization is retarded, and dissolved salts and minerals become amorphous powders that remain in suspension or settle out as drainable mud. (Pakard Manufacturing Co., Dept. Sci., 2220 W. Beaver St., Jacksonville 9, Fla.)
- ABSORPTION CELL REFERENCE TABLE for use with Beckman spectrophotometers has been compiled by Will Corp. The table provides complete information on 40 absorption cells. In addition, cell compartments and assemblies designed for use with the cells described are illustrated. (Will Corp., Dept. Sci., Rochester 3, N.Y.)
- ELECTROGRAPH, model 420 by Century, provides instantaneous oscillograms. Utilizing electrosensitive paper, with automatic sensitizing and dry developing and fixing, the instrument is capable of 24-trace recording by light beam to 100 cy/sec without amplification. (Century Electronics and Instruments, Inc., Dept. Sci., 1333 N. Utica St., Tulsa, Okla.)



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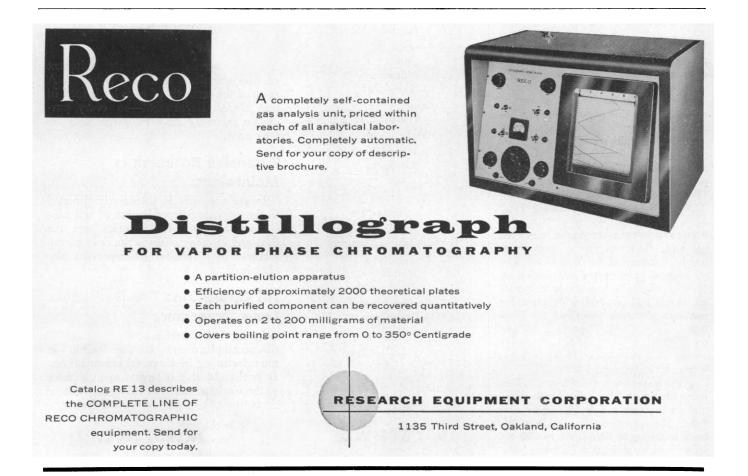
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- RECTILINEAR RECORDING MILLIAMMETER presents signals in their rectilinear appearance. Rectilinear writing is made possible by a pantographic linkage, which includes a gimbal mounting for the pen and a freely moving frame with counterbalancing weights that insure uniform pen pressure throughout the deflection. (Texas Instruments, Inc., Dept. Sci., 6000 Lemmon Ave., Dallas 9, Tex.)
- INCUBATOR provides for external control of temperatures from 5° to 50°C. A dial thermometer on the door registers inside temperature. The unit will accommodate 120 bottles of 190-ml size or 105 bottles of 300-ml size. (Central Scientific Co., Dept. Sci., 1700 Irving Park Rd., Chicago, Ill.)

- AUTOMATIC BALANCE employs only two knife edges instead of the conventional three. On-the-job sensitivity corrections can be made by knob adjustment. The balance utilizes the substitution method of weighing and provides for readings on a projected scale from 0.1 mg to 200 g. (American Balance Corp., Dept. Sci., 48 Potter Ave., New Rochelle, N.Y.)
- MONOCHROMATIC CONDENSER provides efficient illumination for ultraviolet microscopy and photomicroscopy. Attached to a 500-mm monochromator, the lens system permits the ultraviolet light source to be moved 10.25 in. from the photomicrographic equipment. The condenser illuminates the complete field of view of the microscopic image. (Bausch and Lomb Optical Co., Dept. Sci., 635 St. Paul St., Rochester, N.Y.)
- ULTRASONIC TRADUCER for cleaning, plating, and other physical and chemical processes is sealed, metal-jacketed, and thermostatically protected. Its resonant frequency of 20 kcy/sec provides maximum cavitation energy above the range of human perception. It is powered by a generator that is continually variable in frequency from 10 kcy to 1200 kcy and has an output of 400 w. (General Ultrasonics Co., Dept. Sci., 1240 Main St., Hartford, Conn.)
- Two new plasticizers have been introduced by Rubber Corporation of America. One of these is a blend of diisodecyl phthalate and di-isodecyl adipate that functions as a low-temperature plasticizer for polyvinyl chloride. It exhibits low volatility and high heat stability. The other product, called DIDP-10, has been formulated for wire coating application and like purposes. It is designed to improve low-temperature brittle points in polyvinyl chloride compounds while maintaining the low volatility that is characteristic of higher phthalate esters. (Rubber Corp. of America, Dept. Sci., Hicksville, N.Y.)
- ANESTHOGRAPH measures the depth of anesthesia of patients who are undergoing surgery. The instrument, which incorporates an electroencephalograph and an electrocardiograph, simultaneously records brain-wave patterns and heartaction tracings. (Edin Co., Inc., Dept. Sci., 207 Main St., Worcester, Mass.)
- LABORATORY FURNITURE is cataloged and illustrated in a new Duralab publication. Specifications are given for center, wall, and titration tables; fume hoods; storage cases; distillation racks; and other equipment. (Duralab Equipment Corp., Dept. Sci., 979 Linwood St., Brooklyn 8, N.Y.)



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