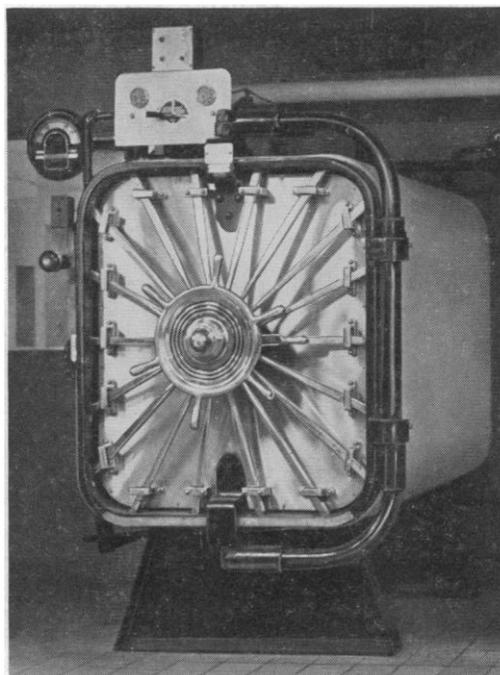


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■ TUNING-FORK-CONTROLLED POWER SUPPLY, completely transistorized, is designed to operate 50- to 60-cy/sec synchronous motors from a 12-v d-c source. Power is sufficient for operation of motors rated up to 140 va input. Output waveform is a modified square wave. Output frequency is accurate and stable to  $\pm 0.01$  percent. Input voltage may vary from 10.5 to 13.0 v. (Mandrel Industries, Dept. S762)

■ FLOW COMPUTER is a system which computes flow through an orifice and produces a printed record. Necessary corrections are introduced automatically. Results are indicated in analog as well as in digital form for flow rate and integrated flow. Accuracy is  $\pm 1$  percent of full scale under all operating conditions. (Southwestern Industrial Electronics Co., Dept. S764)

■ MEGOHMMETER covers six decades in a single scale. Range is from  $10^7$  to  $10^{15}$  ohm. Accuracy of  $\pm 1$  percent of full scale is maintained at every point. Test potentials of 5, 50, and 500 v are available. (Keithley Instruments Inc., Dept. S768)

■ HAND VIBROGRAPH is a self-contained instrument for making records of machinery vibration on a continuous paper chart. Magnifications of 5, 10, 20, and 40 are externally selectable. Measurements can be made directly on the surface of rotating shafts. (Vibroscope Co., Dept. S769)

■ TEST CHAMBER to cover a range from  $-100^\circ$  to  $+300^\circ\text{F}$  features a low-mass heating unit and Dry-Ice cooling with by-pass damper for economical operation. The interior is made of stainless steel. Accessories available are multipane windows, added penetrations, temperatures to  $+425^\circ\text{F}$  or higher, and casters. Standard test space dimensions are 18 by 18 by 18 in. (Experimental Equipment Co., Dept. S749)

■ ELECTROMETER can detect current differences of  $5 \times 10^{-15}$  amp; five ranges extending from  $5 \times 10^{-9}$  to  $2.5 \times 10^{-13}$  amp. With minimum capacitance in the circuit, the RC time constant is approximately 10 sec. Each additional picofarad of capacitance increases the time con-

stant by 1 sec. Accuracy is better than 1 percent, and stability exceeds 1 percent in 24 hours. Linearity is  $\pm 1$  percent of full scale. (Victoreen Instrument Co., Dept. S772)

■ ANALOG MULTIPLIER generates a voltage proportional to the instantaneous product of two input voltages from d-c to 5 kcy/sec with less than 5- $\mu$ sec delay. Accuracy is  $\pm 0.1$  percent of full scale. Stability over an 8-hr period is  $\pm 0.25$  percent after an initial warm-up. The instrument operates with a 450 kcy/sec carrier which is phase and amplitude modulated by the two inputs. (Chadwick-Helmuth Co., Dept. S784)

■ TRANSISTOR AMPLIFIER has an open-loop gain of 90 db and a closed-loop gain variable from 2 to 1000. Closed-loop gain stability is 1 percent from  $-60^\circ$  to  $+125^\circ\text{C}$ . Bandwidth is 5 cy to 50 kcy/sec. The amplifier will operate without significant increase in noise in a 40-g vibration environment. (Taber Instrument Corp., Dept. S785)

■ RATE-OF-CHANGE METER operates by sampling a voltage pulse at time  $t$  and storing it for comparison with a second pulse at time  $t + \Delta t$ . The time interval between the two pulses is precisely controlled. The output, which is the rate of change of voltage with time, is displayed directly on the meter scale. Over-all accuracy is 2 percent or better. (Miljan, Inc., Dept. S786)

■ MOLECULAR STILL of rotary falling-film design accommodates continuous or batch feeds from 10 ml to 20 lit. Pressure range is from atmospheric pressure to 1  $\mu$ -Hg. Temperature (to  $450^\circ\text{C}$ ), product flow, and rotor speed can be regulated. (Schaar and Company, Dept. S770)

■ CREEP-TESTING EQUIPMENT permits measurements to  $2200^\circ\text{F}$  in vacuum or artificial atmosphere. Load capacity is 2000 lb at maximum temperature. Specimens to 0.357 in. in diameter are accommodated. Modifications can be made to enable the equipment to accept sub-miniature specimens and sheet materials. (Instron Engineering Corp., Dept. S787)

■ OXYGEN INDICATOR has ranges from 0 to 10 and from 0 to 100 parts per million. With calibration at 8-hr intervals, accuracy is estimated to be  $\pm 5$  percent of full scale. The instrument operates on an electrochemical principle whereby the oxygen, adsorbed on a silver electrode, produces hydroxy ions which in turn oxidize a cadmium anode. The resulting electrical signal is measured by an electronic potentiometer. Response to a change in oxygen concentration is 90 percent complete in 2.25 min. The instru-

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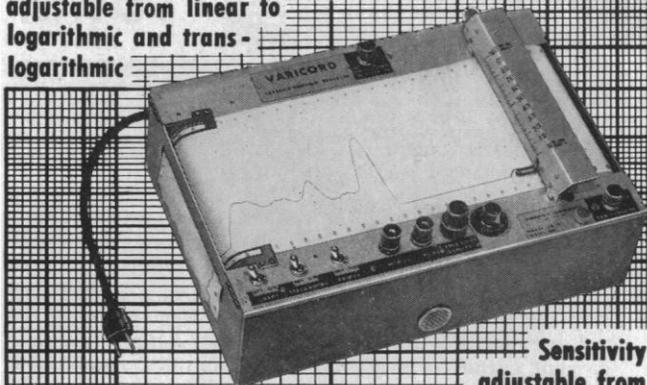
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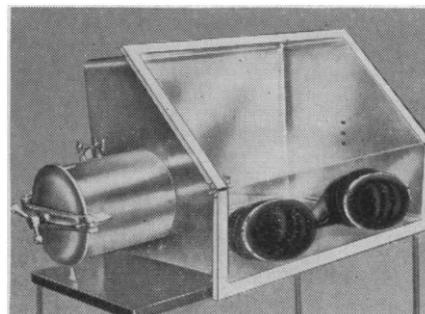
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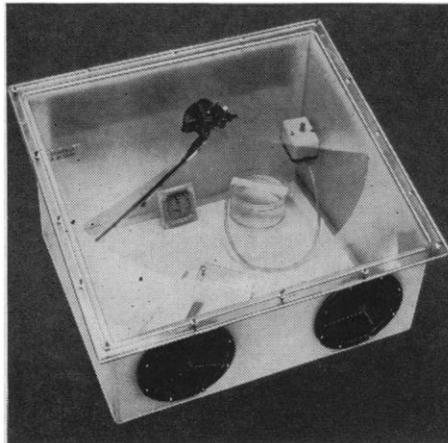
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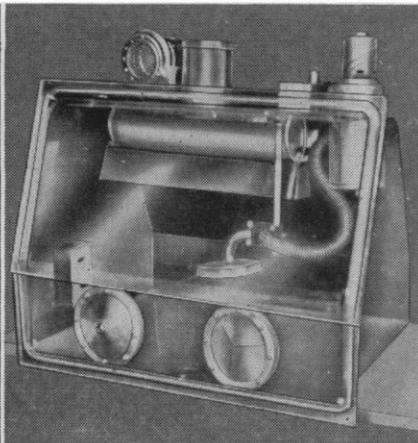
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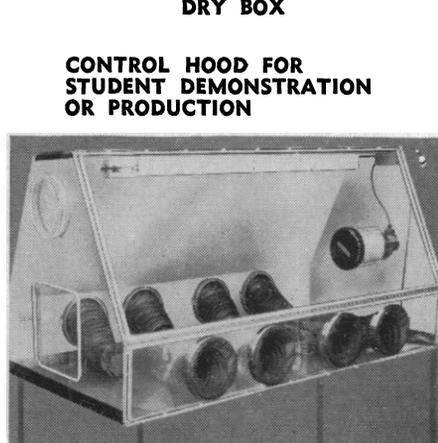
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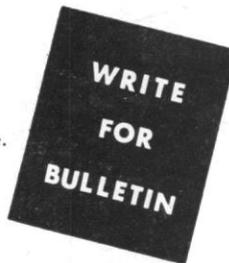
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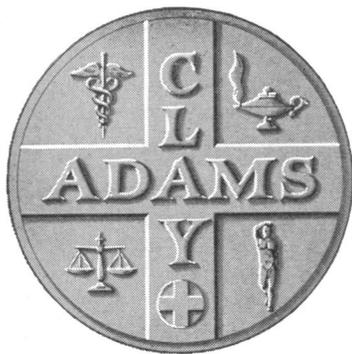
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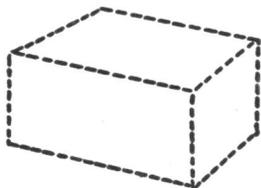
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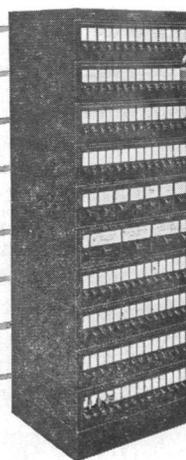
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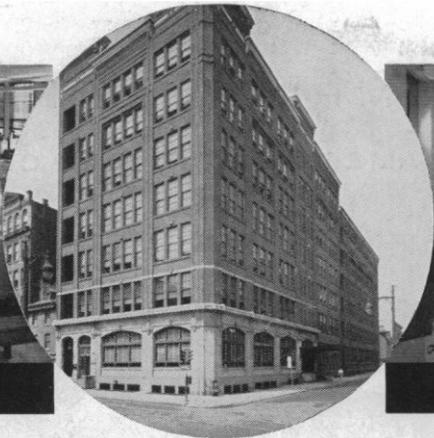
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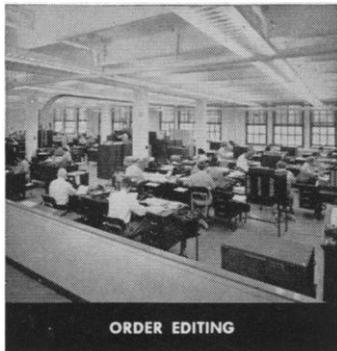
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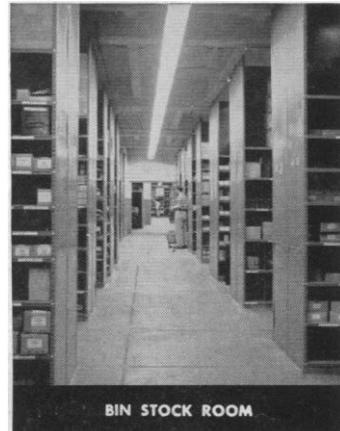
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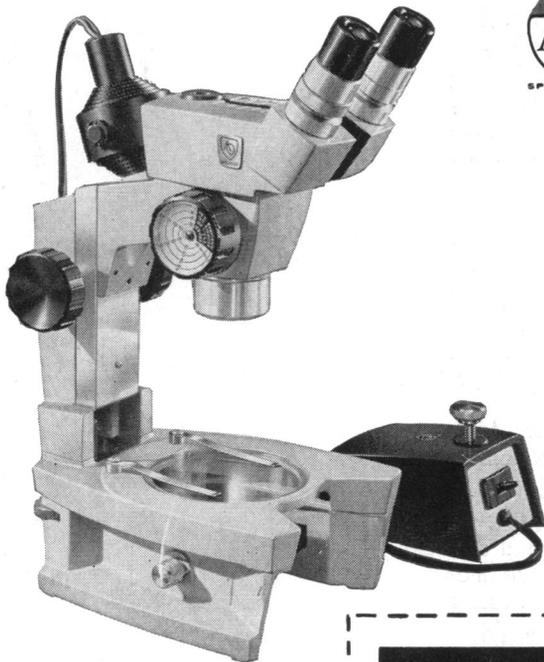
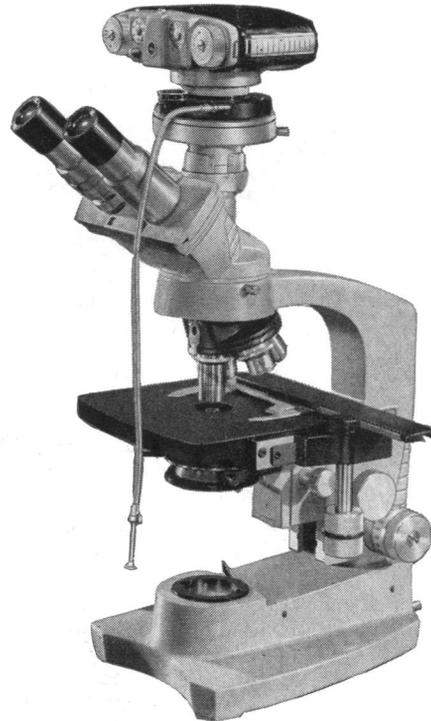
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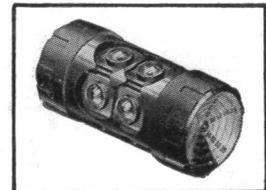
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