

real and assumed mistakes duly included! Mendel was able to recognize and acknowledge results that did not fit his theory when he accepted Nägeli's advice to use the hawkweeds, *Hieracium*, instead of peas for his experiments. The advice was disastrous, because neither Nägeli nor Mendel knew the fact, discovered half a century later, that the hawkweeds frequently produce seeds by parthenogenesis (apogamy) rather than by sexual crossing.

A fine collection of original papers of the pioneers of Mendelism in the early years following the rediscovery (de Vries, Correns, Tschermak, Bateson, Castle, Cuenot, Garrod, Boveri, Wilson, Sutton, Cannon, McClung) are found, in the original languages and with the original pagination indicated, in the Krizenecky-Nemec volume. Critical discussions of these formative years are given in the introductory part of the Sosna volume and in Dunn's book.

In his book, Dunn, approaching more recent history, of course uses a broader canvas: part 3 of the book is entitled *The Theory of the Gene: 1910-1939*, and among its chapters are: *Genetics in 1939—Mileposts of Progress*, *The Cytological Basis of the Chromosome Theory*, *Cytogenetical Analysis*, *The Experimental Study of Mutation*, *The Physiology of the Gene*, *Development and Genetics*, *The Rise of Population Genetics*, and *Concluding Reflections*. Taking 1939 as a cutoff point is admittedly arbitrary but, as Dunn writes, "by this time the theory of the gene had taken on a more general character. The gene had become an essential term in describing continuity, function, evolution. This expansion in the range of phenomena encompassed by the idea, much greater than could have been foreseen in 1900, had been accomplished by about 1939 without losing the fundamental unity implicit in the original concept of the gene." Nevertheless, Dunn adds a short Postlude: *Old and New in Genetics*, which sounds almost like a preface to what a historian of genetics might write some decades hence.

The two Mendel memorial symposia contain a great variety of articles, ranging from historical essays to critical reviews of certain problems to descriptions of original research. Only some of the highlights can be mentioned, in full realization that their selection is an arbitrary procedure. In Sosna's volume, Dubinin discusses

Some Cardinal Problems of the Contemporary Theory of Mutations, and there are papers by F. Jacob on *Génétique Cellulaire chez les Bactéries*, C. H. Waddington on Mendel and Evolution, I. M. Lerner on Mendelism and Animal Breeding, and C. Stern on Mendel and Human Genetics. In the Brink-Styles volume one finds *Genes and Gene Complexes*, by E. B. Lewis, *Properties of Genes*, by M. Demerec, *An Experimental Analysis of the Genetic Code*, by Matthaei and co-workers, *The Operon*, by Buttin, Jacob, and Monod, *Gene Action at the Level of the Chromosome*, by W. Beermann, *Human Populations*, by L. L. Cavalli-Sforza, *The Evolutionary Integration of the Genetic Material into Genetic Systems*, by T. M. Sonneborn, and, finally, H. J. Muller's valedictory address *The Gene Material as the Initiator and the Organizing Basis of Life*. Neither symposium, nor both together, can be said to give an inclusive overview of modern genetics; this is not intended as a criticism, since probably no symposium can be organized to accomplish that much. What the collection of books here reviewed does show is how some geneticists viewed the history and the state of their science a century after Mendel's discovery.

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History of Physics

Sources for History of Quantum Physics. An Inventory and Report. THOMAS S. KUHN, JOHN L. HEILBRON, PAUL FORMAN, and LINI ALLEN. American Philosophical Society, Philadelphia, 1967. 190 pp. \$5.

This is an inventory of about 100 tapes of interviews with leading quantum theoreticians and of about 100 microfilms full of data and of biographical sketches littered with references. Copies of these sources are available in Philadelphia and in Berkeley. The rest is a brief technical report and a sample. The compilers honestly describe the shortcomings of their work and confess inability to assess its future usefulness. As is often the case with hastily collected material, selection will be the chief problem of future users.

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Books Received

Absorption Spectra in the Ultraviolet and Visible Region. vol. 7. L. Lang, Ed. Academic Press, New York, 1967. 412 pp. Illus. \$23.

Abstract Algebra. Andrew O. Lindstrum, Jr. Holden-Day, San Francisco, 1967. 223 pp. \$9. Series in Mathematics.

The Actinomycetes: A Summary of Current Knowledge. Selman A. Waksman. Ronald, New York, 1967. 286 pp. Illus. \$12.

The Admiralty Chart: British Naval Hydrography in the Nineteenth Century. G. S. Ritchie. Elsevier, New York, 1967. 400 pp. Illus. \$15.

Advances in Clinical Chemistry. vol. 9. Harry Sobotka and C. P. Stewart, Eds. Academic Press, New York, 1967. 422 pp. Illus. \$16. Six papers.

Alcoholism. David J. Pittman, Ed. Harper and Row, New York, 1967. 286 pp. Paper, \$3.75. Readers in Social Problems Series. Seventeen papers.

America's Natural Resources. Charles H. Callison, Ed. Ronald, New York, ed. 2, 1967. 228 pp. \$5. Eleven papers.

Analysis Instrumentation. vol. 4. Proceedings of the Twelfth Annual Analysis Instrumentation Symposium (Houston, Tex.), May 1966. Lewis Fowler, Raymond G. Harmon, and David K. Roe, Eds. Plenum Press, New York, 1967. 246 pp. Illus. \$17.50. Twenty-five papers.

Analysis of Engineering Cycles. R. W. Haywood. Pergamon, New York, 1967. 292 pp. Illus. \$6.50. Commonwealth and International Library.

The Analysis of Silicates. I. A. Voinovitch, J. Debras-Guedon, and J. Louvrier. Translated from the French by R. Kondor. E. Seijffers, Translation Ed. Israel Program for Scientific Translations, Jerusalem; Davey, New York, 1967. 397 pp. Illus. \$24.

Analytical Trigonometry. Thomas J. Robinson. Harper and Row, New York, 1967. 198 pp. Illus. \$6.

The Anatomy of Achievement Motivation. Heinz Heckhausen. Translated from the German by Kay F. Butler, Robert C. Birney, and David C. McClelland. Academic Press, New York, 1967. 235 pp. \$5.95. Personality and Psychopathology Series.

Annual Review of Medicine. vol. 18. Arthur C. De Graff and William P. Cregger, Eds. Annual Reviews, Palo Alto, Calif., 1967. 567 pp. Illus. \$8.50.

Another View of the City. A chronicle of a heritage besieged. Russell Peterson. McGraw-Hill, New York, 1967. 236 pp. Illus. \$6.50.

Applied Stress Analysis. A. J. Durelli. Prentice-Hall, Englewood Cliffs, N.J., 1967. 196 pp. Illus. \$12. Civil Engineering and Engineering Mechanics Series.

Astronomischer Jahresbericht. vol. 65, *Die Literatur des Jahres 1965*. W. Lohmann, F. Henn, and U. Güntzel-Lingner, Eds. De Gruyter, Berlin, 1967. 760 pp. Paper, 80 DM.

Autoimmunity: Clinical and Experimental. J. R. Anderson, W. W. Buchanan, and R. B. Goudie. Thomas, Springfield, Ill., 1967. 501 pp. Illus. \$19.50.

(Continued on page 1661)

BOOKS RECEIVED

(Continued from page 1589)

Behavior: An Introduction to Comparative Psychology. John B. Watson. Holt, Rinehart and Winston, New York, 1967. 477 pp. Illus. \$7.95. Reprint, 1914 edition. Henry Holt Editions in Psychology Series.

The Biochemistry of Animal Development. vol 2, *Biochemical Control Mechanisms and Adaptations in Development.* Rudolf Weber, Ed. Academic Press, New York, 1967. 495 pp. Illus. \$21. Nine papers.

Biochimie et Biologie Moléculaire. Marcel Florkin and Ernest Schoffeniels. De-soer, Liege, Belgium, 1966. 588 pp. Illus.

Book of ASTM Standards: With Related Material. Pt. 7, *Nonferrous Metals and Alloys (Including Corrosion Tests); Electrodeposited Metallic Coatings; Metal Powders; Nonferrous Filler Metal; Nonferrous Surgical Implant Materials* (956 pp. \$16); pt. 11, *Bituminous Materials for Highway Construction, Waterproofing, and Roofing; Soils; Skid Resistance* (908 pp. \$14); pt. 12, *Chemical-Resistant Non-metallic Materials; Clay and Concrete Pipe and Tile; Masonry Mortars and Units; Asbestos-Cement Products; Natural Building Stones* (498 pp. \$8); pt. 13, *Refractories, Glass, and Other Ceramic Materials; Manufactured Carbon and Graphite Products* (672 pp. \$10); pt. 17, *Petroleum Products—Fuels; Solvents; Burner Fuel Oils; Lubricating Oils; Cutting Oils; Lubricating Greases; Hydraulic Fluids* (1152 pp. \$20); pt. 18, *Petroleum Products—Measurement and Sampling; Liquefied Petroleum Gases; Light Hydrocarbons; Plant Spray Oils; Aerospace Materials; Sulfonates; Crude Petroleum; Petrolatum; Wax; Graphite* (914 pp. \$16); pt. 19, *Gaseous Fuels; Coal and Coke* (500 pp. \$8); pt. 20, *Paint, Varnish, Lacquer, and Related Products—Materials Specifications and Tests; Naval Stores; Industrial Aromatic Hydrocarbons* (1232 pp. \$20); pt. 21, *Paint, Varnish, Lacquer, and Related Products—Tests for Formulated Products and Applied Coatings* (658 pp. \$10); pt. 22, *Sorptive Mineral Materials; Soap; Engine Antifreeze; Wax Polishes; Halogenated Organic Solvents; Activated Carbon; Industrial Chemicals* (670 pp. \$10); pt. 29, *Electrical Insulating Materials* (1256 pp. \$22). American Soc. for Testing and Materials, Philadelphia, 1967. Illus.

The Cell and Environmental Temperature. Proceedings of the international symposium on cytoecology (Leningrad), May-June 1963. A. S. Troshin, Ed. Translated from the Russian (1964). C. L. Prosser, Ed. Pergamon, New York, 1967. 472 pp. Illus. \$21.50. Fifty-nine papers. International Series of Monographs in Pure and Applied Biology.

The Chemistry of the Ether Linkage. Saul Patai, Ed. Interscience (Wiley), New York, 1967. 795 pp. Illus. \$29.50. Sixteen papers.

Chromatography. Erich Heftmann. Reinhold, New York, ed. 2, 1967. 893 pp. Illus. \$27.50.

The City. Robert E. Park, Ernest W. Burgess, and Roderick D. McKenzie. Univ. of Chicago Press, Chicago, 1967. 249 pp. \$5. Reprint, 1925 edition.

Clinical Judgment. Alvan R. Feinstein. Williams and Wilkins, Baltimore, 1967. 422 pp. Illus. \$9.50.

Codes for Periodical Titles. vols. 1 and 2. Prepared by Wyandotte-ASTM Punched Card Project. L. E. Kuentzel, Ed. American Soc. for Testing and Materials, Philadelphia, ed. 2, 1966. vol. 1, 523 pp.; vol. 2, 591 pp. \$85 per set.

Cold Spring Harbor Symposia on Quantitative Biology. vol. 31, *The Genetic Code.* Cold Spring Harbor Laboratory of Quantitative Biology, Cold Spring Harbor, N.Y., 1966. 784 pp. Illus. \$15. Eighty-eight papers.

College Physics. Franklin Miller, Jr. Harcourt, Brace, and World, New York, ed. 2, 1967. 735 pp. Illus. \$10.50.

The Comparative Anatomy and Histology of the Cerebellum from Myxinoidea through Birds. Olof Larsell. Univ. of Minnesota Press, Minneapolis, 1967. 301 pp. Illus. \$14.

Composite Materials. Lectures delivered at the Institution's refresher course, November 1965. A. Kelly, G. C. Smith, P. J. E. Forsyth, and A. J. Kennedy. Published for The Institution of Metallurgists. Iliffe, London; Elsevier, New York, 1967. 154 pp. Illus. \$7.50. Four papers.

The Control of Nuclear Activity. A symposium (Woods Hole, Mass.), August-September 1966. Sponsored by The Society of General Physiologists. Lester Goldstein, Ed. Prentice-Hall, Englewood Cliffs, N.J., 1967. 508 pp. Illus. \$7.50.

Cross Electrophoresis: Its Principle and Applications. Shojiro Nakamura. Shoin, Tokyo, 1966; Elsevier, New York, 1967. 204 pp. Illus. \$17.

Cytogenetics. Carl P. Swanson, Timothy Merz, and William J. Young. Prentice-Hall, Englewood Cliffs, N.J., 1967. 206 pp. Illus. Paper, \$3.75; cloth, \$5.95. Foundations of Modern Genetics Series.

Desalination and Its Role in Water Supply. British Information Services, New York, 1967. 103 pp. Illus.

Diagnostic des Maladies à Virus. R. Sohier. Éditions Médicales Flammarion, Paris, ed. 2, 1967. 971 pp. Illus. \$32.

Diagnostic Procedures in Veterinary Bacteriology and Mycology. G. R. Carter. Thomas, Springfield, Ill., 1967. 298 pp. Illus. \$14.

Differential Geometry. Louis Auslander. Harper and Row, New York, 1967. 285 pp. Illus. \$12.50. Harper's Series in Modern Mathematics.

Digital Computer Programming. Peter A. Stark. Macmillan, New York, 1967. 541 pp. Illus. \$9.95.

Drugs Affecting the Peripheral Nervous System. Alfred Burger, Ed. Dekker, New York, 1967. 644 pp. Illus. \$27.50. Ten papers. Medicinal Research: A Series of Monographs, vol. 1.

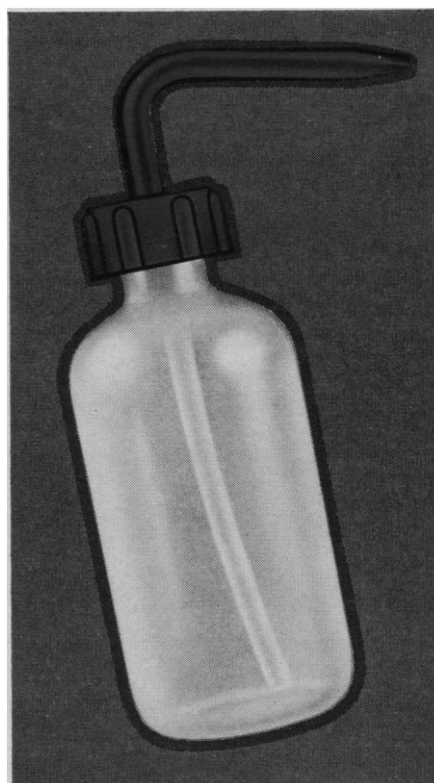
The Ecology of Animals. Charles Elton. Methuen, London; Barnes and Noble, New York, 1967. 107 pp. Paper, \$1.75; cloth, \$3.25. Reprint, edition 3 (1950).

Economic Organizations and Social Systems. Robert A. Solo. Bobbs-Merrill, New York, 1967. 519 pp. Illus. \$8.75.

Eden Was No Garden: An Inquiry into the Environment of Man. Nigel Calder. Holt, Rinehart, and Winston, New York, 1967. 240 pp. \$4.95.

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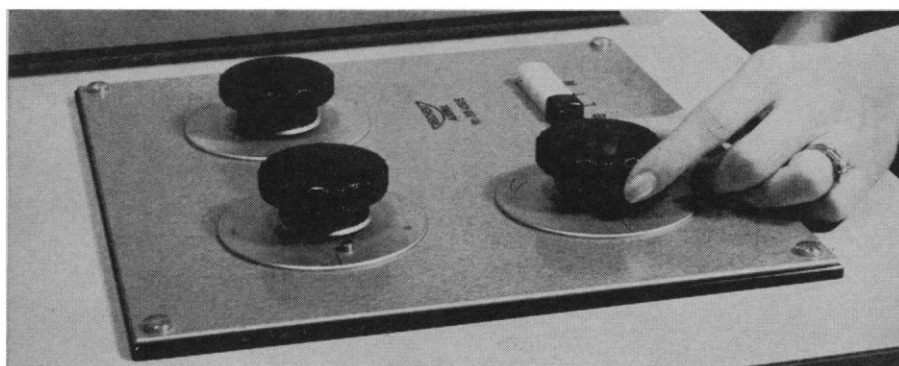
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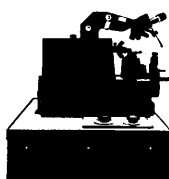


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Parkhomenko. Translated from the Russian edition by George V. Keller. Plenum Press, New York, 1967. 328 pp. Illus. \$19.50. Monographs in Geoscience.

Elementary Genetics. W. Ralph Singleton. Van Nostrand, Princeton, N.J., ed. 2, 1967. 588 pp. Illus. \$9.50.

Elements of Real Analysis. Sze-Tsen Hu. Holden-Day, San Francisco, 1967. 379 pp. Illus. \$10.95.

Essentials of Healthier Living. Justus J. Schifferes. Wiley, New York, ed. 3, 1967. 468 pp. Illus. \$7.50.

Estuaries. A symposium (Jekyll Island, Ga.), March-April 1964. AAAS Publication No. 83. George H. Lauff, Ed. AAAS, Washington, D.C., 1967. 773 pp. Illus. \$27. There are 71 papers.

Experimental Methods of Materials Research. Herbert Herman, Ed. Interscience (Wiley), New York, 1967. 328 pp. Illus. \$14.95. Ten papers. Advances in Materials Research, vol. 1.

Families of Flowering Plants in Ethiopia. An introduction with keys for the identification of the families of flowering plants and gymnosperms found in Ethiopia and adjacent areas of eastern Africa. William C. Burger. Oklahoma State Univ. Press, Stillwater, 1967. 240 pp. Illus. \$7.

Foundations of Mechanics. Ralph Abraham. Benjamin, New York, 1967. 334 pp. Illus. \$14.75.

From Frege to Gödel: A Source Book in Mathematical Logic, 1879-1931. Jean van Heijenoort. Harvard Univ. Press, Cambridge, Mass., 1967. 672 pp. Illus. \$18.50.

Fundamental Aspects of Electrocrystallization. J. O'M. Bockris and G. A. Razumney. Plenum Press, New York, 1967. 167 pp. Illus. \$7.50.

Handbook of the Engineering Sciences. vol. 1, *The Basic Sciences*. James H. Potter, Ed. Van Nostrand, Princeton, N.J., 1967. 1365 pp. Illus. \$37.50.

Handbook of the Poisson Distribution. Frank A. Haight. Wiley, New York, 1967. 182 pp. \$9.50.

Heat Transfer. Alan J. Chapman. Macmillan, New York, ed. 2, 1967. 637 pp. Illus. \$12.95.

Hemes and Hemoproteins. A colloquium (Philadelphia), April 1966. Britton Chance, Ronald W. Estabrook, and Takashi Yonetani, Eds. Academic Press, New York, 1966. 640 pp. Illus. \$13.75.

Heredity and Evolution in Human Populations. L. C. Dunn. Harvard Univ. Press, Cambridge, Mass., ed. 2, 1967. 165 pp. Illus. \$3.50.

Intermediate Algebra for College Students. Thurman S. Peterson. Harper and Row, New York, ed. 3, 1967. 393 pp. Illus. \$7.50.

Intracellular Transport. Katherine Brehme Warren, Ed. Academic Press, New York, 1966. 343 pp. Illus. \$15. Fourteen papers. Symposia of the International Society for Cell Biology, vol. 5.

An Introduction to Analysis. Wilson M. Zaring. Macmillan, New York, 1967. 378 pp. Illus. \$9.95.

An Introduction to Astronomy. Charles M. Huffer, Frederick E. Trinklein, and Mark Bunge. Holt, Rinehart and Winston, New York, 1967. 391 pp. Illus. \$8.95.

An Introduction to Fourier Analysis. R. D. Stuart. Methuen, London; Barnes and Noble, New York, 1967. 128 pp. Illus.

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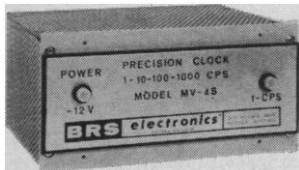
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The Iron Age in Northern Britain. Based on papers delivered to the Conference on Problems of the Iron Age in Northern Britain (Edinburgh), October 1961. A. L. F. Rivet, Ed. Edinburgh Univ. Press; Aldine, Chicago, 1966. 163 pp. Illus. \$8.50. Six papers.

The Ixodid Ticks of Tanzania. G. H. Yeoman and Jane B. Walker. Commonwealth Institute of Entomology, London, 1967. 227 pp. Illus.

Lectures on Algebraic Topology. Marvin J. Greenberg. Benjamin, New York, 1967. 245 pp. Illus. Paper, \$5.95; cloth, \$10.

Lehrbuch der Theoretischen Physik. vol. 5, *Statistische Physik*. L. D. Landau and E. M. Lifschitz. Akademie-Verlag, Berlin, 1966. 543 pp. Illus.

Let Us Start Here. An introduction to basic readings in the life sciences. Paul Gibbons Roope. World, Cleveland, 1967. 112 pp. \$3.50.

The Levittowners: Ways of Life and Politics in a New Suburban Community. Herbert J. Gans. Pantheon Books, New York, 1967. 504 pp. \$7.95.

Life, Atoms, Chance: Three Essays in the Philosophy of Science. F. F. Centore. Pageant Press, New York, 1966. 118 pp. \$3.

Local Atomic Arrangements Studied by X-Ray Diffraction. Proceedings of a symposium (Chicago, Ill.), February 1965. Sponsored by the Metallurgical Society, American Institute of Mining, Metallurgical, and Petroleum Engineers. J. B. Cohen and J. E. Hilliard, Eds. Gordon and Breach, New York, 1966. 393 pp. Illus. Paper, \$22. Metallurgical Society Conferences, vol. 36. Eleven papers.

Luminescence Dosimetry. Proceedings of an international conference (Stanford, Calif.), June 1965. Sponsored by U.S. Atomic Energy Commission, Office of Naval Research, and Stanford University. Frank H. Attix, Ed. U.S. Atomic Energy Commission, Oak Ridge, Tenn., 1967 (available from Clearinghouse for Federal Scientific and Technical Information, Springfield, Va.). 526 pp. Illus. Paper, \$3. Forty-five papers.

Magnetism in Solids. D. H. Martin. M.I.T. Press, Cambridge, Mass., 1967. 462 pp. Illus. \$19.95.

Man and the Earth. Joseph Bixby Hoyt. Prentice-Hall, Englewood Cliffs, N.J., ed. 2, 1967. 480 pp. Illus. \$9.95.

The Mathematical Approach to Biology and Medicine. Norman T. J. Bailey. Wiley, New York, 1967. 310 pp. Illus. \$8.75.

Mathematics—An Integrated Series: Book Four, Analysis. H. Vernon Price, Philip Peak, and Phillip S. Jones. Harcourt, Brace, and World, New York, 1967. 491 pp. Illus. \$6.

Maxima and Minima. Morris E. Levenson. Macmillan, New York, 1967. 160 pp. Illus. Paper, \$2.95.

Medicine at the Paris Hospital, 1794–1848. Erwin H. Ackerknecht. Johns Hopkins Press, Baltimore, 1967. 256 pp. Illus. \$8.95.

Medical Cytogenetics. Mihály Bartalos and Theodore A. Baramki. Williams and Wilkins, Baltimore, 1967. 443 pp. Illus. \$12.50.

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The Method of Coordinates. I. M. Gel'fand, E. G. Glagoleva, and A. A. Kirillov. Translated and adapted from the Russian by Leslie Cohn and David Sookne. M.I.T. Press, Cambridge, Mass., 1967. 79 pp. Illus. Paper, \$1.50. Library of School Mathematics Series, vol. 1.

Methods of Wood Chemistry. vol. 1. B. L. Browning. Interscience (Wiley), New York, 1967. 406 pp. Illus. \$15.

Metis of the Mackenzie District. Richard Slobodin. Canadian Research Centre for Anthropology, Ottawa, 1966. 189 pp. Paper, \$4.

Mineral Recognition. Iris Vanders and Paul F. Kerr. Wiley, New York, 1967. 330 pp. Illus. \$11.95.

A Model of Simple Competition. Joel E. Cohen. Harvard Univ. Press, Cambridge, Mass., 1966. 150 pp. Illus. \$5.95. Annals of the Computation Laboratory, vol. 41.

Modern Developments in the Mechanics of Continua. Proceedings of an international conference (Pinebrook, N.Y.), August 1965. Salomon Eskinazi, Ed. Academic Press, New York, 1966. 215 pp. Illus. \$10. Sixteen papers.

Modern Plane Geometry for College Students. Herman R. Hyatt and Charles C. Carico. Macmillan, New York, 1967. 464 pp. Illus. \$7.95.

Molecular Flow in Vessels. Yurii Naumovich Lyubotov. Translated from the Russian edition (Moscow, 1964) by Wendell H. Furry and James S. Wood. Consultants Bureau, New York, ed. 2, 1967. 172 pp. Illus. Paper, \$22.50.

Molecules and Cells. D. A. Coult. Houghton Mifflin, Boston, 1967. 176 pp. Illus. Paper, \$2.75. Principles of Modern Biology Series.

National Document-Handling Systems for Science and Technology. L. F. Carter *et al.* Wiley, New York, 1967. 356 pp. Illus. \$9.95.

The New College Physics: A Spiral Approach. Albert V. Baez. Freeman, San Francisco, 1967. 757 pp. Illus. \$11.75.

New Geography, 1966-67. John Laffin. Abelard-Schuman, New York, 1967. 237 pp. Illus. Paper, \$2.95; cloth, \$5.95.

Oil Property Valuation. Richard V. Hughes. Wiley, New York, 1967. 325 pp. Illus. \$11.50.

On Education—Sociological Perspectives. Donald A. Hansen and Joel E. Gerstl, Eds. Wiley, New York, 1967. 314 pp. \$7.50. Nine papers.

Organic Reactions. vol. 15. Arthur C. Cope, Ed. Wiley, New York, 1967. 615 pp. Illus. \$18. Two papers.

Perspectives in Powder Metallurgy: Fundamentals, Methods, and Applications. vol. 2. *Vibratory Compacting: Principles and Methods.* Henry H. Hausner, Kempton H. Roll, and Peter K. Johnson, Eds. Plenum Press, New York, 1967. 312 pp. Illus. \$17.50. Twenty-seven papers.

Planning Human Resource Development: Educational Models and Schemata. Russell G. Davis. Rand McNally, Chicago, 1967. 352 pp. Illus. \$8.

Practical Physical Chemistry. Arthur M. James. Churchill, London, ed. 2, 1967. 383 pp. Illus. Paper, 40s.

Principles of Biology. Neal D. Buffaloe and J. B. Throneberry. Prentice-Hall, Englewood Cliffs, N.J., ed. 2, 1967. 416 pp. Illus. \$7.50.



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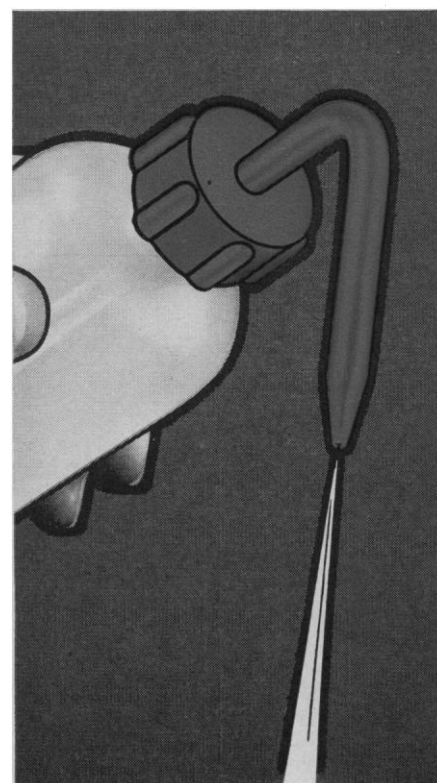
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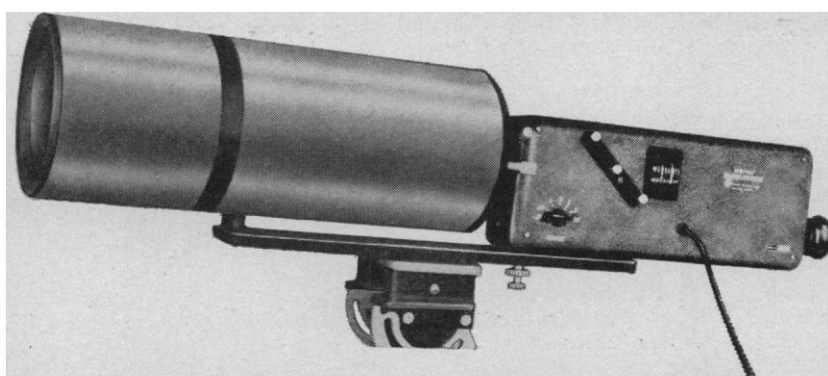


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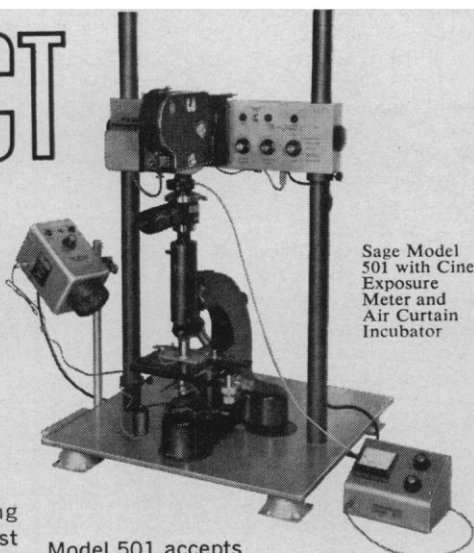
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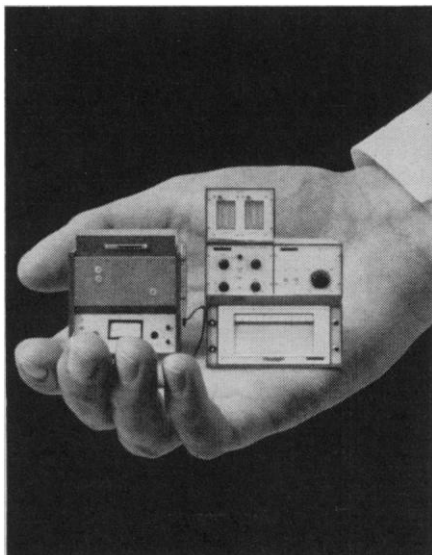
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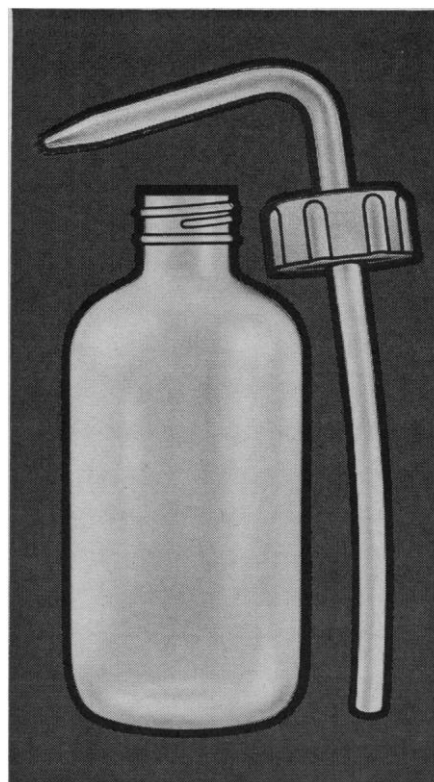
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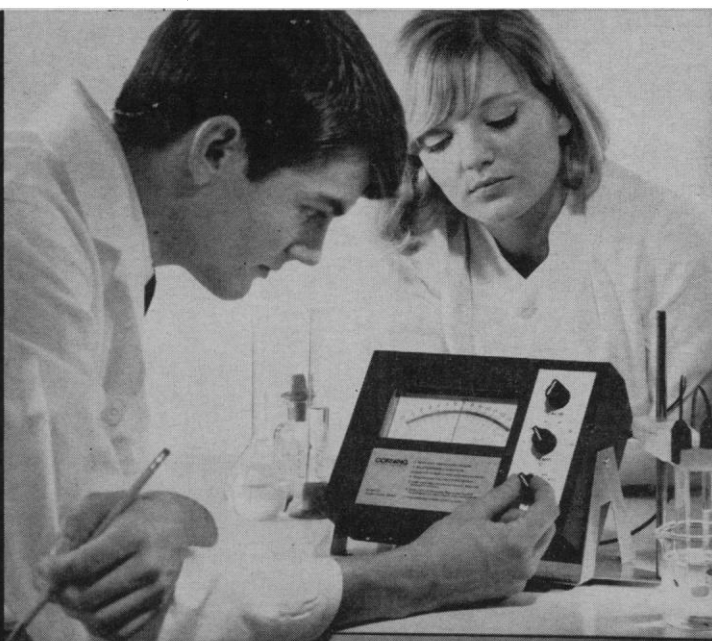
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