

biologists to rethink some of the questions faced by their predecessors. But as a history of biology—one of whose tasks is to try to explain why the questions were answered the way they were—it will not bear serious scrutiny. Facile generalizations, startling omissions, factual errors, and antiquated prejudices severely limit its usefulness as a reliable guide to the history of its subject. The extracts are not documented and the "Bibliographical notes" (pp. 251–65) contain, without sufficient notice to the reader, many items that have been superseded. All in all, the author seems to be ignorant of the historian's responsibility to use primary sources and to weigh that evidence against the findings of later investigators.

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Blood

Platelets in Haemostasis. E. HAGEN, W. WECHSLER, F. ZILLIKEN, C. HAANEN, and J. JÜRGENS, Eds. Karger, Basel, 1968 (U.S. distributor, Phiebig, White Plains, N.Y.). x + 242 pp., illus. \$16.60. *Experimental Biology and Medicine*, vol. 3.

The blood platelets play a dominant role in the physiology of hemostasis, and their variously impaired functions are associated with hemorrhagic diseases. Furthermore, intravascular clotting and thrombosis involve the platelets. This highlights their importance, because widespread manifestations of thrombosis and thrombohemorrhagic diseases present one of the great challenges of our time in clinical medicine. The tremendous attention given the platelets during the past two decades thus represents attention where it counts, and this new book comes near to summarizing the present-day perspective.

Platelets are round elements from 2 to 5 microns in diameter. "They extend and retract pseudopods, adhere to collagen, cohere to each other, undergo fusion and release substances that precipitate some of the events . . . culminating in hemostasis, coagulation, and final dissolution of the blood clot." Inside the limited membrane is a fine granular substance (hyalomer), which is distinguished from various types of vacuoles and granules. The vacuoles and granules have mitochondria, glyco-

gen particles, and α -granules with their platelet factor 3, which is so very important for the clotting of blood. There are also microtubules and 5-hydroxytryptamine organelles. Ribosomes are very rare. The actomyosin-like substance called thrombasthenin is an adenosine triphosphatase and functions in clot retraction to express serum. The platelets contain numerous substances, including fibrinogen, antiheparin material, fibrinolytic inhibitor, fibrinoplastin, and a precursor of transglutaminase, which has a role in forming $\epsilon(\gamma$ -glutamyl) lysine crosslinks in the fibrin clot.

Adenosine diphosphate is the center of attention in platelet aggregation, the release reaction, and viscous metamorphosis (VM) and could very well turn out to be recognized as the essential pathway in VM. Adrenaline promotes platelet aggregation, and this opens the possibility for thrombogenesis through the release of adrenaline which occurs under stress. Platelet VM seems to be triggered by various external agents through an increase in membrane permeability. The search is on for compounds that will inhibit platelet aggregation with the hope of finding therapeutic agents for use in prophylaxis or where thrombogenesis is recognized. Examples of inhibitors are adenosine, prostaglandin, *N*-methylmaleimide, vasodilator drugs, and α -adrenergic blocking agents.

I amused myself with several items in the book. Lüscher states that it took a long time to recognize that thrombin can produce VM, and thinks the retarding factor presented a variety of obstacles. I thought it was because thrombin had first to be isolated. I remember the sample of thrombin I made for DeRobertus *et al.* which they used in their electron microscope studies of the action of thrombin on blood platelets (*Blood*, vol. 8, 1953, p. 587). They clearly demonstrated a profound effect of thrombin on platelet integrity. I made a quick survey of the 537 references in the book. About 80 percent of the citations are of papers more recent than 1958. Approximately 18 percent of these are for the year 1966. The number then declines to 35 percent for 1958. It is evident that emphasis is on recent contributions.

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Books Received

Angular Momentum. D. M. Brink and G. R. Satchler. Clarendon (Oxford University Press), New York, ed. 2, 1968. x + 160 pp., illus. Paper, \$3.50. Oxford Library of the Physical Sciences.

Annual Review of Information Science and Technology. Vol. 3. Carlos A. Cuadra, Ed. Encyclopaedia Britannica, Chicago, 1968. x + 462 pp., illus. \$15.

The Art of Organic Forms. Philip C. Ritterbush. Smithsonian Institution Press, Washington, D.C., 1968. (distributor, Random House, New York). x + 152 pp., illus. \$10.

Aspects of Hydrocarbon Radiolysis. T. Gäumann and J. Hoigné, Eds. Academic Press, New York, 1968. x + 274 pp., illus. \$11.

Automatic Information Organization and Retrieval. Gerard Salton. McGraw-Hill, New York, 1968. xiv + 514 pp., illus. \$14.50.

Behind These Doors. Science Museum Makers. Margery Facklam. Rand McNally, Chicago, 1968. 144 pp., illus. \$4.50.

Biological Interfaces: Flows and Exchanges. Proceedings of a symposium. Little, Brown, Boston, 1968. xii + 326 pp., illus. \$7.50. New York Heart Association Basic Science Symposia. Also published as a supplement to the *Journal of General Physiology*, Vol. 52, No. 1, part 2.

Bird Navigation. G. V. T. Matthews. Cambridge University Press, New York, ed. 2, 1968 + 198 pp., illus. Cloth, \$7; paper, \$2.45. Cambridge Monographs in Experimental Biology, No. 3.

Black Rage. William H. Grier and Price M. Cobbs. Basic Books, New York, 1968. x + 214 pp. \$5.95.

A Ceremonial Ox of India. The Mithan in Nature, Culture, and History. With Notes on the Domestication of Common Cattle. Frederick J. Simoons, assisted by Elizabeth S. Simoons. xvi + 324 pp., illus. \$11.

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Classical Electromagnetism via Relativity. An Alternative Approach to Maxwell's Equations. W. G. V. Rosser. Plenum, New York; Butterworths, London, 1968. x + 294 pp., illus. \$12.50.

Climate and Agriculture. An Ecological Survey. Jen-Hu Chang. Aldine, Chicago, 1968. xvi + 304 pp., illus. \$9.75.

The Closed Corporation. American Universities in Crisis. James Ridgeway. Random House, New York, 1968. xii + 276 pp. \$5.95.

Cooley and Sociological Analysis. Albert J. Reiss, Jr., Ed. University of Michigan Press, Ann Arbor, 1968. xii + 178 pp. \$7.50.

The Crime of Punishment. Karl Menninger. Viking, New York, 1968. xiv + 306 pp. \$8.95.

Crystal Structures. Vol. 4, Miscellaneous Inorganic Compounds, Silicates, and Basic Structural Information. Ralph W. G. Wyckoff. Interscience (Wiley), New York, ed. 2, 1968. viii + 568 pp., illus. \$25.

(Continued on page 106)



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BOOKS RECEIVED

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Diary of a Heart Patient. Twice Operated On by Dr. DeBakey, a Patient Tells of His Experience. Yehuda Kesten. McGraw-Hill, New York, 1968. iv + 274 pp. \$7.95.

A Dictionary of Words about Alcohol. Mark Keller and Mairi McCormick. Rutgers Center of Alcohol Studies, New Brunswick, N.J., 1968. xxviii + 236 pp. \$7.50.

Electromagnetic Waves and Radiating Systems. Edward C. Jordan and Keith G. Balmain. Prentice-Hall, Englewood Cliffs, N.J., ed. 2, 1968. xiv + 754 pp., illus. \$14.95. Prentice-Hall Electrical Engineering Series.

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Elementary Probability for the Biological Sciences. James E. Mosimann. Appleton-Century-Crofts, New York, 1968. xvi + 256 pp., illus. Paper, \$3.95.

Elementary School Science Activities. Pearl Astrid Nelson. Prentice-Hall, Englewood Cliffs, N.J., 1968. xii + 212 pp., illus. \$7.95.

The Elements of Complex Analysis. J. Duncan. Wiley, New York, 1968. x + 314 pp., illus. Cloth, \$11.50; paper, \$5.75.

Food Poisoning and Food Hygiene. Betty C. Hobbs. Arnold, London, ed. 2, 1968 (U.S. distributor, Williams and Wilkins, Baltimore). x + 254 pp., illus. \$9.

Fuel Cells and Fuel Batteries. A Guide to Their Research and Development. H. A. Liebhafsky and E. J. Cairns, Wiley, New York, 1968. xii + 692 pp., illus. \$27.50.

Fundamentals of Probability Theory and Mathematical Statistics. V. E. Gmurman. Translated from the Russian edition by Scripta Technica. I. I. Berenblut, Ed. Iliffe, London; Elsevier, New York, 1968. xiv + 250 pp., illus. \$9.75.

Gas Chromatography. Orion Edwin Schupp III. Interscience (Wiley), New York, 1968. xxii + 442 pp., illus. \$16.50. Technique of Organic Chemistry, vol. 13.

Gas Phase Reaction Kinetics of Neutral Oxygen Species. Harold S. Johnson. National Bureau of Standards, Gaithersburg, Md., 1968 (available from the Superintendent of Documents, Washington, D.C.). vi + 54 pp., illus. Paper, 45¢. National Standard Reference Data Series, No. 20.

The Heart in Health and Disease. Rustom Jal Vakil. University of Bombay, Bombay, ed. 2, 1968. xviii + 184 pp., illus. Rs. 12.

Hematologic Reviews. Vol. 1. Julian L. Ambrus, Ed. Dekker, New York, 1968. xii + 290 pp., illus. \$16.75.

Higher Education in Social Psychology. Sven Lundstedt, Ed. Press of Case Western Reserve University, Cleveland, 1968. xii + 276 pp. \$7.50.

Hybrid Computation. George A. Bekey and Walter J. Karpus. Wiley, New York, 1968. xiv + 466 pp., illus. \$13.95.

Index-Catalogue of Medical and Veterinary Zoology. Subjects: Trematoda and Trematode Diseases. Mildred A. Doss, Katharine Forsyth Roach, Marion M. Farr, and Virginia L. Breen. Part 7, Supergenera and Genera R-S (vi + 217 pp. Paper,

SCIENCE, VOL. 163

60¢). Part 8, Supergenera Genera T-Z (vi + 97 pp. Paper, 40¢). U.S. Department of Agriculture, Washington, D.C., 1968 (available from the Superintendent of Documents, Washington, D.C.).

International Protection of Human Rights. Proceedings of the 7th Nobel Symposium, Oslo, 1967. Asbjørn Eide and August Schou, Eds. Interscience (Wiley), New York; Almqvist and Wiksell, Stockholm, 1968. 300 pp. \$17.50.

Interpersonal Dynamics. Essays and Readings on Human Interaction. Warren G. Bennis, Edgar H. Schein, Fred I. Steele, and David E. Berlew, Eds. Dorsey, Homewood, Ill., ed. 2, 1968. xvi + 768 pp., illus. \$12.35. Dorsey Series in Psychology.

Intervention and Revolution. The United States in the Third World. Richard J. Barnet. World, Cleveland, 1968. x + 310 pp. \$6.95.

Introduction to Analysis. Bernard Kripke. Freeman, San Francisco, 1968. xiv + 274 pp., illus. \$8.50. A Series of Books in Mathematics.

An Introduction to Experimentation. B. J. Brinkworth. Elsevier, New York, 1968. x + 182 pp., illus. \$4.75.

Introduction to Statistical Procedures. With Computer Exercises. Paul R. Lohnes and William W. Cooley. Wiley, New York, 1968. xviii + 286 pp., illus. \$8.95.

An Introduction to Tree-Ring Dating. Marvin A. Stokes and Terah L. Smiley. University of Chicago Press, Chicago, 1968. xiv + 74 pp., illus. \$5.85.

Introductory Relativity. W. G. V. Rosser. Plenum, New York; Butterworths, London, 1968. xii + 348 pp., illus. \$7.25.

Invertebrate Embryology. Matazo Kumé and Katsuma Dan, Eds. Translated from the Japanese edition (Tokyo, 1957) by Jean C. Dan. Published for the National Library of Medicine and the National Science Foundation by the NOLIT Publishing House, Belgrade, 1968 (available as TT 67-58050 from Clearinghouse for Federal Scientific and Technical Information, Springfield, Va.). xvi + 608 pp., illus. \$6.

Laboratory Exercises in Invertebrate Physiology. John H. Welsh, Ralph I. Smith, and Ann E. Kammer. Burgess, Minneapolis, ed. 3, 1968. xii + 220 pp., illus. Spiral bound, \$5.75.

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Linear Programming. Béla Kerkó. Translated from the German edition (East Berlin, 1962) by J. H. L. Ahrens and Carolyn M. Safe. Elsevier, New York, 1968. xii + 356 pp., illus. \$14.50.

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Matrix of Man. An Illustrated History of Urban Environment. Sibyl Moholy-Nagy. Praeger, New York, 1968. 320 pp., illus. \$15.

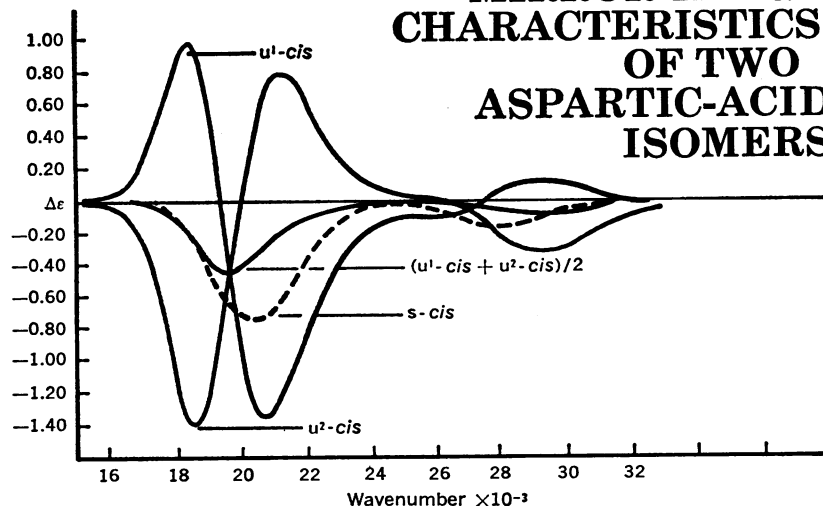
The Measurement and Prediction of Judgment and Choices. R. Darrell Bock and Lyle V. Jones. Holden-Day, San Francisco, 1968. xiv + 370 pp., illus. \$14.50. Holden-Day Series in Psychology.

Microwave Power Engineering. Ernest

CHEMICAL PROFILES

... drawn by Durrum

PROVING THE MIRROR-IMAGE CHARACTERISTICS OF TWO ASPARTIC-ACID ISOMERS

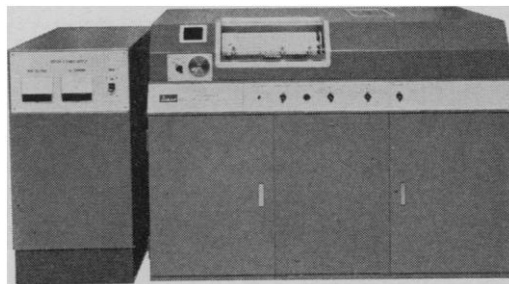


Aspartic acid, with its three donor sites, can form a variety of hard-to-identify chelate isomers. The circular-dichroism profiles drawn here, plotted from data gathered by a Durrum-Jasco CD recorder, are typical of the molecular detective work* that can be achieved with this versatile instrument.

The steric requirements of aspartic acid indicate that in a cobalt-diethylenetriamine complex, three isomers will predominate: one *s-cis* (symmetrical), shown as a dashed-line profile in the drawing above, and two *u-cis* (unsymmetrical) isomers, shown in color. The latter are essentially mirror images of each other, and the Durrum-Jasco instrument provides a way to identify one from the other.

The configurational contributions to the CD traces of the two mirror-image isomers should, in theory, cancel out, leaving an "average" trace that approximates that of the *s-cis* isomer where there are no configurational contributions. As seen here, a very close correlation is achieved, proving that the two *u-cis* isomers are indeed pseudo-mirror images and providing clues as to their specific forms.

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*AS REPORTED BY J. IVAN LEGG AND DEAN W. COOKE IN THE DECEMBER 20, 1967 ISSUE OF JOURNAL OF THE AMERICAN CHEMICAL SOCIETY.



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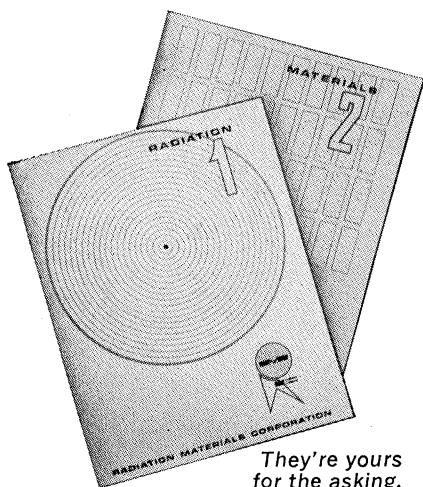
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C. Okress, Ed. Vol. 2, Applications. Academic Press, New York, 1968. xviii + 414 pp., illus. \$17. Electrical Science: A Series of Monographs and Texts.

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Physiological Basis of the Alpha Rhythm. Per Andersen and Sven A. Andersson. Appleton-Century-Crofts, New York, 1968. x + 238 pp., illus. \$12. Neuroscience Series.

Pleistocene Mammals of Europe. Björn Kurtén. Aldine, Chicago, 1968. viii + 320 pp., illus. \$11.75.

Pogonomyrmex Harvester Ants. A Study of the Genus in North America. Arthur C. Cole, Jr. University of Tennessee Press, Knoxville, 1968. x + 222 pp., illus. \$7.50.

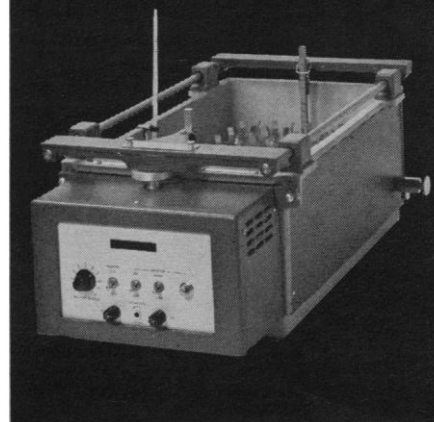
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Practical Field Surveying and Computations. A. L. Allan, J. R. Hollwey, and J. H. B. Maynes. Elsevier, New York, 1968. xvi + 672 pp., illus. \$20.

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Tradition. Aage Petersen. Published in co-operation with Belfer Graduate School of Science, Yeshiva University, by M.I.T. Press, Cambridge, Mass., 1968. x + 202 pp. \$7.50.

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Trends and Variations in Fertility in the United States. Clyde V. Kiser, Wilson H. Grabill, and Arthur A. Campbell. Harvard University Press, Cambridge, Mass., 1968. xxxii + 342 pp., illus. \$6.95. American Public Health Association Vital and Health Statistics Monographs.

The Unprepared Society. Planning for a Precarious Future. Donald N. Michael. Basic Books, New York, 1968. xviii + 138 pp. \$4.95.

Uses of the Seas. Edmund A. Gullion, Ed. Prentice-Hall, Englewood Cliffs, N.J., 1968. xviii + 206 pp. Cloth, \$4.95; paper, \$2.45. An American Assembly book.

Van Nostrand's Scientific Encyclopedia. Van Nostrand, Princeton, N.J., ed. 4, 1968. x + 2010 pp., illus. \$37.50 until 31 Dec. 1968; thereafter, \$42.75.

The Virology and Immunology of Cancer. L. A. Zilber and G. I. Abelev. Translated from the Russian edition (1962), with revisions by the authors, and edited by Ruth Schachter. Pergamon, New York, 1968. xii + 476 pp., illus. \$21.

Weather Modification. Ninth Annual Report for Fiscal year Ended 30 June 1967. National Science Foundation, Washington, D.C., 1968 (available from the Superintendent of Documents, Washington, D.C.). vi + 102 pp., illus. Paper, 40¢.

The World of Ramón y Cajal. With Selections from His Nonscientific Writings. E. Horne Craigie and William C. Gibson. Thomas, Springfield, Ill., 1968. x + 298 pp., illus. \$9.75. American Lecture Series, No. 718.

The Writings of Anna Freud. Vol. 4, Indications for Child Analysis and Other Papers, 1945-1956. International Universities Press, New York, 1968. xvi + 694 pp. \$12.

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