this is a new concept, but its validity cannot be evaluated because no supporting data or references are given.

A major surprise is the report that vacuum annealing of commercially pure and alpha titanium alloys renders them subject to notch-impact embrittlement over a period of years, presumably as a result of absorption of hydrogen from water vapor at room temperature on the active titanium surface resulting from vacuum annealing. This implies that a clean titanium surface can reduce water vapor at room temperature. No Western information supports this startling report. A great deal of vacuum-annealed commercial titanium is being produced in the United States for use in chemical equipment. One may be sure that there will be some scurrying around our titanium plants to find some wellaged material on which to check the Russian report. I am inclined to discount the validity of the report because a titanium dioxide film forms rapidly on titanium surfaces, and after a short time there should be little difference between a vacuum-annealed or non vacuum-annealed surface. The book does not cover the more recently discovered effect that cooling alpha titanium through the hydride precipitation field under stress results in hydride platelets precipitating normal to the applied tensile stresses. Hydride precipitated in such a way is more embrittling than the normal random precipitation.

There are few comments that one can make about a book like Phase Diagrams of Titanium Alloys (Israel Program for Scientific Translations, Jerusalem; Davey, New York, 1965. 318 pp., \$15.25), by E. K. Molchanova, except to say whether or not it provides a complete and accurate summary of the available literature in a readily accessible form. Molchanova's book, which was translated from the second Russian edition by A. Halbreich, N. Kaner, and M. Statter and which is an updating of the book by Molchanova and Glazunov (1954), does not appear to do this very well, although the information on constitution is supplemented by data on metastable phases formed in heat treatment, and includes ternary alloy systems as well as binary. The data on the constitution of alloys is brought up to 1962, the same period covered by R. P. Elliott's recent supplement to the classic Constitution of Binary Alloys by Hansen and Anderko, which brought the binary phase diagram literature up to 1956 and 1957. The Defense Metals Information Center at Battelle Institute's Columbus laboratories brought the literature on binary and ternary titanium phase diagrams up to September 1960.

The situation on titanium phase diagrams is in a muddle as a result of controversy over the constitution of the titanium-aluminum (Ti-Al) system, where a sluggish ordered phase forms in the terminal hcp alpha-phase field. Aluminum is the most important alloying element in titanium alloys, and is a constituent in most commercial alloys. Thus, information about the existence of the ordered phase in alpha titanium is crucial to a good understanding of the metallurgy of titanium alloys. It was disappointing, therefore, to find inadequate and superficial coverage of the controversial Ti-Al system in Molchanova's book where only passing reference is made to the subject. The 1956 diagram of Sagel, Schulz, and Zwicker is presented, with only citations to the more recent work.

In addition to information on constitution, the book gives data on the mechanical properties, some physical properties (resistivity), and chemical properties (oxidation). This is certainly desirable. I checked a number of well-known cases, and it appears that important American references on mechanical properties have been overlooked or disregarded. The phase diagrams are grouped according to type of diagram rather than in a useful alphabetical arrangement. This may be appealing scientifically, but it makes the book much more difficult to use as a reference source.

Despite its limitations, the phase diagram book contains very useful information and, along with *Hydrogen in Titanium*, deserves a place in the library of engineers and scientists who are concerned with titanium metallurgy.

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Ichthyology

The first four parts of this monumental work, *Fishes of the Western North Atlantic*, were reviewed in *Science* on 7 May 1965 (*Science* 148, p. 834). This fifth part, **Order Iniomi**, **Order Lyomeri** (Sears Foundation for Marine Research, Yale University, New Haven, Conn., 1966. 662 pp., \$27.50), contains accounts of two major groups of soft-rayed fishes of the area extending from Hudson Bay to the Amazon and from the mid-Atlantic east of Bermuda to the estuaries of the coastal plain.

Most of the volume is devoted to the order Iniomi, a group of offshore species known mainly by ichthyologists, except for the lizard fish and allied species found along the tropic and temperate coasts.

The order Lyomeri, which is discussed in the final portion of the book, is a small group of bizarre deep-sea creatures of extraordinary form. The major part of the volume is the work of the editor-in chief, Giles W. Mead; the other portions were prepared by nine collaborating ichthyologists: William W. Anderson, Frederick H. Berry, James E. Bohlke, Rolf L. Bolin, Jack W. Gehringer, Robert H. Gibbs, Jr., William A. Gosline, N. B. Marshall, Robert Rofen, and Norman J. Wilimovsky. Parts 6, 7, and 8 will be published in future years to complete the work.

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New Books

Mathematics, Physical Sciences, and Engineering

Accélérateurs Circulaires de Particules: Introduction à la Théorie. Henri Bruck. Institut Natl. des Sciences et Techniques Nucléaires, Saclay; Presses Universitaires de France, Paris, 1966. 370 pp. Illus.

Advances in Programming and Non-Numerical Computation. L. Fox, Ed. Pergamon, New York, 1966. 226 pp. Illus. \$10. Nine papers given at the 1963 Summer School, Oxford University: "Introduction to automatic computing" by S. Gill; "List programming" by P. M. Woodward; "Programming" by D. W. Barron and C. Strachey; "Artificial languages" by J. M. Foster; "A_l-calculus approach" by P. J. Landin; "A survey of non-numerical applications" by S. Gill; "Theorem-proving in computers" by D. C. Cooper; "Game-playing and gamelearning automata" by D. Michie; and "Information retrieval and some cognate computing problems" by R. M. Needham.

The Analytical Chemistry of the Noble Metals. F. E. Beamish. Pergamon, New York, 1966. 623 pp. Illus. \$18.50. International Series of Monographs in Analytical Chemistry, vol. 24.

(Continued on page 1301)

SCIENCE, VOL. 152

NEW BOOKS

(Continued from page 1234)

Angular Scattering Functions for Spheres. Harry H. Denman, Wilfried Heller, and William J. Pangonis. Wayne State Univ. Press, Detroit, 1966. 314 pp. \$12. Applications of Mass Spectrometry to

Organic Chemistry. R. I. Reed. Academic Press, New York, 1966. 266 pp. Illus. 63s.

Applications of Spectroscopy to Organic Chemistry. J. C. D. Brand and G. Eglinton. Oldbourne Press, London; Davey, New York, 1966. 242 pp. Illus. \$12. Oldbourne Chemistry Series.

Applied Optics and Optical Engineering. vol. 3, Optical Components. Rudolf Kingslake, Ed. Academic Press, New York, 1965. 388 pp. Illus. \$15. Nine chapters, by James R. Benford, G. H. Cook, Georg Hass, R. E. Hopkins, Rudolf Kingslake, Irving B. Lueck, Seymour Rosin, R. M. Scott, and R. R. Shannon.

Atmospheric Reentry. An introduction to its science and engineering. John J. Martin. Prentice-Hall, Englewood Cliffs, N.J., 1966. 288 pp. Illus. \$14.50. Prentice-Hall International Series in Space Technology, edited by C. W. Besserer and Floyd E. Nixon.

Atomic and Nuclear Physics. Derek L. Livesey. Blaisdell (Ginn), Waltham, Mass., 1966. 539 pp. Illus. \$10.50.

Book of ASTM Standards: With Related Material. Pt. 7, Nonferrous Metals and Alloys (Including Corrosion Tests): Die-Cast Metals; Electrodeposited Metallic Coatings; Metal Powders; Nonferrous Filler Metal (892 pp. \$14; members, \$9.80); pt. 11, Bituminous Materials for Highway Construction, Waterproofing, and Roofing; Soils; Skid Resistance (846 pp. \$13; members, \$9.10); pt. 12, Chemical-Resistant Mortars, Plastic Structures; Clay and Concrete Pipe and Tile; Masonry Units; As*bestos-Cement Products; Building Stone* (488 pp. \$9; members, \$6.30); pt. 15, Paper; Packaging; Cellulose; Casein; Flexible Barrier Materials; Leather (896 pp. \$13; members, \$9.10); pt. 19, Gaseous Fuels; Coal and Coke (484 pp. \$8, members, \$5.60); pt. 22, Sorptive Mineral Materials; Soap; Engine Antifreezes; Wax Polishes; Halogenated Organic Solvents; Activated Carbon (472 pp. \$8; members, \$5.60); pt. 29, Electrical Insulating Materials (1180 pp. \$19; members, \$13.30). American Soc. for Testing and Materials, Philadelphia, 1966. Illus.

Cahiers de Synthèse Organique: Méthodes et tableaux d'application. vol. 12. Jean Mathieu and André Allais. Masson, Paris, 1966. 297 pp. Illus. F. 120.

Chemical Principles in the Laboratory. Harper W. Frantz and Lloyd E. Malm. Freeman, San Francisco, Calif., 1966. 382 pp. Illus. Paper, \$4.25.

Chemistry: Principles and Properties. Michell J. Sienko and Robert A. Plane. McGraw-Hill, New York, 1966. 633 pp. Illus. \$8.95.

College Algebra. M. Richardson. Prentice-Hall, Englewood Cliffs, N.J., ed. 3, 1966. 623 pp. Illus. \$8.50.

College Chemistry. J. Nelson Shaw. Merrill, Columbus, Ohio, 1966. 511 pp. Illus. \$8.25. The Merrill Physical and Inorganic Chemistry Series, edited by Theodore L. Brown.

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The Concepts of Classical Thermodynamics. H. A. Buchdahl. Cambridge Univ. Press, New York, 1966. 235 pp. Illus. \$8.50.

La conversion des énergies. Régis David. Presses Universitaires de France, Paris, 1966. 128 pp. Illus. Paper.

Correlation Equations for Statistical Computations. Aristarkh Konstantinovich Mitropol'skii. Translated from the Russian by Edwin S. Spiegelthal. Consultants Bureau, New York, 1966. 111 pp. Illus. \$9.50. The Russian text for this translation was prepared by the author in 1965 and is based on chapter 7 of his book *Tekhnika Statisticheskikh Vychislenii* (Moscow, 1961).

Dipole Radiation in the Presence of a Conducting Half-Space. Alfredo Baños, Jr. Pergamon, New York, 1966. 263 pp. Illus. \$11. International Series of Monographs in Electromagnetic Waves, vol. 9, edited by A. L. Cullen, V. A. Fock, and J. R. Wait.

Differential Equations: Stability, Oscillations, Time Lags. A. Halanay. Translated from the Rumanian edition (Bucharest, 1963). R. Bellman, Translation Ed. Academic Press, New York, 1966. 542 pp. Illus. 156s. Mathematics in Science and Engineering Series. Direct Methods of Qualitative Spectral

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Elements of Steelmaking Practice. John D. Sharp. Pergamon, New York, 1966. 256 pp. Illus. Paper, \$3.95. The Common-wealth and International Library.

A First Course in Abstract Algebra. Hiram Paley and Paul M. Weichsel. Holt, Rinehart, and Winston, New York, 1966. 350 pp. Illus. \$8.50.

Fluid Dynamics. James W. Daily and Donald R. F. Harleman. Addison-Wesley, Reading, Mass., 1966. 464 pp. Illus. \$12.50.

Fluorocarbons and Their Derivatives. R. E. Banks. Oldbourne Press, London; Davey, New York, 1966. 167 pp. Illus. \$6. Oldbourne Chemistry Series.

Fundamentals of Chemistry: A Modern Introduction. Frank Brescia, John Arents, Herbert Meislich, and Amos Turk. Academic Press, New York, 1966. 832 pp. Illus. 70s. 9d.

Fundamentals of Display Systems. Harry H. Poole. Spartan Books, Washington, D.C., 1966. 413 pp. Illus. \$20.

Gaussian Quadrature Formulas. A. H. Stroud and Don Secrest. Prentice-Hall, Englewood Cliffs, N.J., 1966. 384 pp. Illus. \$14.95. General Chemistry. John Arrend Timm. McGraw-Hill, New York, ed. 4, 1966. 655 pp. Illus. \$8.95.

General Climatology. Howard J. Critchfield. Prentice-Hall, Englewood Cliffs, N.J., ed. 2, 1966. 432 pp. Illus. \$11.95.

Geochemistry of Beryllium: And Genetic Types of Beryllium Deposits. A. A. Beus. Translated from the Russian edition (Moscow, 1960) by F. Lachman. Lincoln R. Page, Ed. Freeman, San Francisco, Calif., 1966. 411 pp. Illus. \$15.

Growth of Crystals. vol. 4. A. V. Shubnikov and N. N. Sheftal', Eds. Translated from the Russian (Moscow, 1964). Consultants Bureau, New York, 1966. 214 pp. Illus. \$20. Forty-two papers on the following topics: Experimental Studies (15 papers); Growth of Monocrystals and Auxiliary Studies (15 papers); Survey Work and Growth Methods (5 papers); Reviews (4 papers); Miscellaneous (2 papers) and Diary (1 paper).

Handbook of Generalized Gas Dynamics. Robert P. Benedict and William G. Steltz. Plenum Press Data Division, New York, 1966. 253 pp. Illus. \$12.50. Handbook of Thermionic Properties.

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Handbook of Vacuum Physics. vol. 1, Gases and Vacua. Pts. 4 to 6; pt. 4 by E. Thomas; pt. 5 by J. D. Swift; pt. 6 by H. G. Nöller. A. H. Beck, Ed. Pergamon, New York, 1966. 221 pp. Illus. Paper, \$7.25.

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Homotopy Theory and Duality. Peter Hilton. Gordon and Breach, New York, 1966. 234 pp. Illus. Paper, \$5.95; cloth, \$11. Notes on Mathematics and its Applications Series.

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Infrared Band Handbook. Suppls. 3 and 4. Herman A. Szymanski, Ed. Plenum Press, New York, 1966. 277 pp. Illus. \$15.

Introduction to Laser Physics. Bela A. Lengyel. Wiley, New York, 1966. 327 pp. Illus. \$8.95. Wiley Series in Pure and Applied Optics.

An Introduction to Probability Theory and Its Applications. vol. 2. William Feller. Wiley, New York, 1966. 646 pp. Illus. \$12.

Introduction to the Theory of Differential Equations with Deviating Arguments. L. E. El'sgol'ts. Translated from the Russian edition (Moscow, 1964) by Robert J. McLaughlin. Holden-Day, San Francisco, 1966. 119 pp. Illus. \$6.95.

Lectures on Matter and Equilibrium. Terrell L. Hill. Benjamin, New York, 1966. 318 pp. Illus. Paper, \$3.95; cloth, \$9.

Ligand Substitution Processes. Cooper H. Langford and Harry B. Gray. Benjamin, New York, 1965. 119 pp. Illus.

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Treatise on Irreversible and Statistical Thermophysics. An introduction to nonclassical thermodynamics. Wolfgang Yourgrau, Alwyn van der Merwe, and Gough Raw. Macmillan, New York, 1966. 288 pp. Illus. \$9.95.

Tropospheric Radiowave Propagation beyond the Horizon. Francois du Castel. Translated from the French edition (Paris, 1961) by E. Sofaer. Pergamon, New York, 1966. 248 pp. Illus. \$11.50. International Series of Monographs in Electromagnetic Waves, vol. 8, edited by A. L. Cullen, V. A. Fock, and J. R. Wait.

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