

Invited Trouble

Peut-On Prévoir les Catastrophes Naturelles? MARCEL ROUBAULT. Presses Universitaires de France, Paris, 1971. 174 pp., illus. Paper, 19 F.

Marcel Roubault is a distinguished French geologist and member of the French Academy of Sciences who has participated in several committees of investigation following natural catastrophes. His book was prompted by the fact that the actions of state and local authorities and of the affected population subsequent to a "natural catastrophe" in many cases invite its renewal.

Roubault examines in detail five types of disasters, namely, floods, earthquakes, landslides, avalanches, and the rupture of dams; most of his examples are from France.

The outcome of his investigation is that although the causes of the catastrophes may not be foreseeable at any given instant, enough is known of their effects to permit measures to prevent or minimize destruction of property and life. Among the obstacles to such measures are public ignorance and inertia and the cupidity of speculators. Furthermore, many elected officials have appealed to the supposed inevitability of natural disasters to exonerate themselves for not having taken preventive measures.

In France, floods have been among the most destructive of natural phenomena. The authorities of some river basins, notably the Rhone, have taken united action in flood control, but others are only now beginning. Warnings of impending floods can be given but often are not, owing to the difficulty of allocating responsibility between local and departmental governments.

The area of France most likely to be affected by destructive earthquakes is the Mediterranean coast. This area has also been the scene of rapid development to profit from tourism. Most buildings have been erected without regard for possible earthquakes. The effects of the recent San Gabriel earthquake in California are evidence that this is not a uniquely French phenomenon.

Roubault treats the other three phenomena in like manner, and again human fallibility is seen to be the root of the problem.

In his last two chapters, Roubault examines the administrative and judicial problems that can allow the populace to expose itself to possible destruction.

As with the natural phenomena, these problems are not peculiar to France, and their examination is pertinent. Following the numerous natural catastrophes that have occurred recently, Roubault's book is very timely, and its perusal by the inhabitants of the distressed areas would no doubt clarify the reasons for their distress. As populations grow and more and more land basically unsuitable for building, such as flood plains and unstable hillsides, is utilized, more "natural catastrophes" can be expected.

This book deserves to be read by the general audience for which it was written, for the author presents facts that are inaccessible to most. The style is simple and direct and the vocabulary is such that readers with a limited knowledge of the French language should not hesitate to undertake reading the book.

NORMAN HARTHILL

Group Seven, Inc., Golden, Colorado

Books Received

Anatomy of a Park. The Essentials of Recreation Area Planning and Design. Albert J. Rutledge. Illustrations by Donald J. Molmar. McGraw-Hill, New York, 1971. xii, 180 pp. \$15.95.

Anxiety and Neurotic Disorders. Barclay Martin. Wiley, New York, 1971. xvi, 160 pp., illus. Cloth, \$6.50; paper, \$3.50. Approaches to Behavior Pathology Series.

The Botany and Chemistry of Cannabis. Proceedings of a conference, London, April 1969. C. R. B. Joyce and S. H. Curry, Eds. Churchill, London, 1970 (U.S. distributor, Williams and Wilkins, Baltimore, Md.). xiv, 218 pp., illus. \$12.

The Butterflies of Wisconsin. James A. Ebner. Milwaukee Public Museum, Milwaukee, Wis., 1971. x, 206 pp., illus. Paper, \$5. Popular Science Handbook No. 12.

Care of the Maternity Patient. Diana Viator. Maureen McCutcheon, Ed. McGraw-Hill, New York, 1971. xii, 568 pp., illus. Paper, \$14.95.

Detection of Signals in Noise. Anthony D. Whalen. Academic Press, New York, 1971. xiv, 414 pp., illus. \$19.50. Electrical Science Series.

The Distributional History of the Biota of the Southern Appalachians. Part 2, Flora. A symposium, Blacksburg, Va., June 1969. Perry C. Holt and Robert A. Paterson, Eds. Virginia Polytechnic Institute and State University, Blacksburg, 1970. x, 414 pp., illus. Paper, \$5.95. VPI Research Division Monograph 2.

Down's Syndrome (Mongolism). A conference, New York, November 1969. Virginia Apgar, Ed. New York Academy of Sciences, New York, 1970. Illus. Paper, \$24.50. *Annals of the New York Academy of Sciences*, vol. 171, article 2, pp. 303-688.

From Molecules to Man. The Gustav Stern Symposium, February 1970. Morris Pollard, Ed. Academic Press, New York, 1971. xxx, 328 pp., illus. \$14.50. *Perspectives in Virology*, vol. 7.

From Now to Zero. Fertility, Contraception, and Abortion in America. Leslie Aldridge Westoff and Charles F. Westoff. Little, Brown, Boston, 1971. xxii, 358 pp., illus. Paper, \$3.95.

General Botany. Wilhelm Nultsch. Translated from the German edition (Stuttgart, 1968). James E. Gunkel, Transl. Ed. Academic Press, New York, 1971. xiv, 440 pp., illus. \$10.

General Organic Chemistry. Raymond B. Seymour. Barnes and Noble, New York, 1971. xx, 558 pp., illus. Paper, \$5.95.

Geology of Recent Sediments. Zdeněk Kukal. Translated by Helena Zarubová. Academia, Prague, and Academic Press, New York, 1971. 490 pp., illus. \$17.50.

Glucose Syrups and Related Carbohydrates. A symposium, April 1970. G. G. Birch, L. F. Green, and C. B. Coulson, Eds. Elsevier, New York, 1970. x, 118 pp., illus. \$8.95.

Handbook of Sensory Physiology. Vol. 1, Principles of Receptor Physiology. W. R. Loewenstein, Ed. Springer-Verlag, New York, 1971. xii, 600 pp., illus. \$46.20.

Hayfever Plants. Their Appearance, Distribution, Time of Flowering, and Their Role in Hayfever. Roger P. Wodehouse. Hafner, New York, ed. 2, 1971. xii, 280 pp., illus. \$14.95.

The Healing of the Mind. The Technique of Psychoanalytic Psychotherapy. Reuben Fine. McKay, New York, 1971. xiv, 306 pp. \$8.95.

Here Comes Everybody. Bodymind and Encounter Culture. William C. Schutz. Harper and Row, New York, 1971. xx, 296 pp. \$6.95.

Hormones, Lipids and Miscellaneous. Vol. 3 of 7th International Congress of Clinical Chemistry, Geneva and Evian, September 1969. J.-P. Felber and J.-J. Scheidegger, Eds. University Park Press, Baltimore, Md., 1970. xiv, 474 pp., illus. \$29.50.

Integrated Experimental Ecology. Methods and Results of Ecosystem Research in the German Solling Project. H. Ellenberg, Ed. Springer-Verlag, New York, 1971. xx, 214 pp., illus. \$16. *Ecological Studies*, vol. 2.

Introduction to Axiomatic Set Theory. Jean-Louis Krivine. Translated from the French edition (Paris). Reidel, Dordrecht, Netherlands, and Humanities Press, New York, 1971. viii, 100 pp. \$8.50. *Synthese Library*.

Introduction to Computer Science. Michael Levison and W. Alan Sentance. Gordon and Breach, New York, 1969. 160 pp., illus. \$9.75.

An Introduction to the Theory of Multipliers. Ronald Larsen. Springer-Verlag, New York, 1971. xx, 284 pp. \$23.10. *Grundlehren der mathematischen Wissenschaften*, vol. 175.

Introduction to the Theory of Solid State Physics. James D. Patterson. Addison-Wesley, Reading, Mass., 1971. x, 388 pp., illus. \$14.50.

Ion Transport and Membranes. A Bio-

physical Outline. A. B. Hope. Butterworth, London, and University Park Press, Baltimore, Md., 1971. xii, 122 pp., illus. \$7.50.

Kidney Hormones. J. W. Fisher, Ed. Academic Press, New York, 1971. xviii, 666 pp., illus. \$25.

Laboratory Instructions in Biochemistry. Louis B. Dotti and James M. Orten. Mosby, Saint Louis, Mo., ed. 8, 1971. x, 198 pp., illus. Paper, \$5.25.

The Life History and Ecology of the Gray Whale (*Eschrichtius robustus*). Dale W. Rice and Allen A. Wolman. American Society of Mammalogists, 1971 (order from Bryan P. Glass, Oklahoma State University, Stillwater). viii, 142 pp., illus. \$5. American Society of Mammalogists Special Publication No. 3.

The Life of Sharks. Paul Budker. English version by Peter J. Whitehead. Columbia University Press, New York, 1971. xviii, 222 pp. + plates. \$12.50.

Linear and Regular Celestial Mechanics. Perturbed Two-Body Motion, Numerical Methods, Canonical Theory. E. L. Stiefel and G. Scheifele. Springer-Verlag, New York, 1971. x, 304 pp., illus. \$18.70. Grundlehren der mathematischen Wissenschaften, vol. 174.

Living Systems. Principles and Relationships. James M. Ford and James E. Monroe. Biological illustrations by Laney Hicks. Canfield, San Francisco, 1971. xvi, 444 pp. \$9.95.

Lower-Class Families. The Culture of Poverty in Negro Trinidad. Hyman Rodman. Oxford University Press, New York, 1971. xiv, 242 pp. \$8.

Mesas Redondas sobre Problemas de Ecología Humana en la Cuenca del Valle de Mexico. November 1970. Instituto Mexicano de Recursos Naturales Renovables, Mexico City, 1971. xx, 208 pp. Paper, 50 pesos.

Methods in Enzymology. Vol. 18, Vitamins and Coenzymes. Part C. Donald B. McCormick and Lemuel D. Wright, Eds. Academic Press, New York, 1971. xx, 786 pp., illus. \$32.

Microbial Control of Insects and Mites. H. D. Burges and N. W. Hussey, Eds. Academic Press, New York, 1971. xxii, 862 pp., illus. \$33.

Milestones in Developmental Physiology of Insects. Papers in Development and Heredity. Dietrich Bodenstien, Ed. Appleton-Century-Crofts, New York, 1971. viii, 232 pp., illus. \$18.95.

Modern Methods of Surface Analysis. Proceedings of a symposium, Murray Hill, N.J., May 1970. Peter Mark and Jules D. Levine, Eds. North-Holland, Amsterdam, 1971. viii, 224 pp., illus. \$11. Reprinted from *Surface Science*, vol. 25, 1971.

Molecular Properties of Drug Receptors. A Ciba Foundation symposium, London, January 1970. Ruth Porter and Maeve O'Connor, Eds. Churchill, London, 1970 (U.S. distributor, Williams and Wilkins, Baltimore, Md.). x, 298 pp. + plates. \$14.

A New Ethic for a New Earth. F/M/N/Papers, No. 2. Glenn C. Stone, Ed. Published for the Faith-Man-Nature Group and the Section on Stewardship and Benevolence of the National Council of Churches by Friendship Press, New York, 1971. 176 pp. Paper, \$1.95.

New Library Design. Guide Lines to Planning Academic Library Buildings. Stephen Langmead and Margaret Beckman. Wiley, New York, 1971. x, 118 pp., illus. + foldout chart. \$12.25.

Observation and Theory in Science. Ernest Nagel, Sylvain Bromberger, and Adolf Grünbaum. Johns Hopkins Press, Baltimore, Md. 1971. viii, 134 pp. \$6.95. Alvin and Fanny Blaustein Thalheimer Lectures, 1969.

Obtaining Generating Functions. Elna B. McBride. Springer-Verlag, New York, 1971. viii, 102 pp. \$12.10. Springer Tracts in Natural Philosophy, vol. 21.

Organizational Experiments. Laboratory and Field Research. William M. Evan, Ed. Harper and Row, New York, 1971. xii, 274 pp., illus. \$8.

Origin and Continuity of Cell Organelles. J. Reinert and H. Ursprung, Eds. Springer-Verlag, New York, 1971. xiv, 342 pp., illus. \$19.80. Results and Problems in Cell Differentiation, vol. 2.

Peril on the Job. A Study of Hazards in the Chemical Industries. Ray Davidson. Public Affairs Press, Washington, D.C., 1971. viii, 198 pp. \$6.

Pharmacological Experiments on Intact Preparations. Department of Pharmacology, University of Edinburgh, and L. J. McLeod. Livingstone, Edinburgh, 1970 (U.S. distributor, Williams and Wilkins, Baltimore, Md.). viii, 114 pp., illus. Spiral bound, \$6.75.

Pharmacological Experiments on Isolated Preparations. Department of Pharmacology, University of Edinburgh. Livingstone, Edinburgh, ed. 2, 1970 (U.S. distributor, Williams and Wilkins, Baltimore, Md.). x, 164 pp., illus. Spiral bound, \$7.

Physiology and Pathology of Trophoblastic Tumors in vivo and in vitro. A symposium, New York, October 1969. Bernard G. Steinetz, Ed. New York Academy of Sciences, New York, 1971. Illus. Paper, \$23.50. *Annals of the New York Academy of Sciences*, vol. 172, article 10, pp. 277-426.

Residue Reviews. Residues of Pesticides and Other Foreign Chemicals in Foods and Feeds, Vol. 35. Francis A. Gunther and Jane Davies Gunther, Eds. Springer-Verlag, New York, 1971. viii, 156 pp. \$14.20.

Resources for Social Change. Race in the United States. James S. Coleman. Wiley-Interscience, New York, 1971. xiv, 120 pp. \$7.95.

Review of Physiology. L. L. Langley. McGraw-Hill, New York, ed. 3, 1971. x, 726 pp., illus. Paper, \$7.95.

Rodd's Chemistry of Carbon Compounds. A Modern Comprehensive Treatise. Vol. 2, part E, Steroids, and Cumulative Index of vol. 2, parts A-E. S. Coffey, Ed. Elsevier, New York, 1971. xvi, 290 pp., illus. \$20.

Salt Deposits, Their Origin and Composition. O. Braitsch. Translated from the German edition (1962) by P. J. Burek and A. E. M. Nairn, in consultation with A. G. Herrmann and R. Evans. Springer-Verlag, New York, 1971. xiv, 300 pp., illus. \$19.80. Minerals, Rocks and Inorganic Materials, vol. 4.

Science and Human Values in the 21st

Century. Ralph Wendell Burhoe, Ed. Westminster, Philadelphia, 1971. 204 pp. Cloth, \$6.95; paper, \$3.45.

Science and Synthesis. An international colloquium. French contributions translated by Barbara M. Crook. Springer-Verlag, New York, 1971. xviii, 206 pp. \$10.50.

The Science and Technology of Polymer Films. Vol. 2. Orville J. Sweeting, Ed. Wiley-Interscience, New York, 1971. xiv, 754 pp., illus. \$37.50. Polymer Engineering and Technology Series.

Scientific Manpower. A Dilemma for Graduate Education. Sanborn C. Brown and Brian B. Schwartz, Eds. M.I.T. Press, Cambridge, Mass., 1971. x, 180 pp. \$6.95. M.I.T. Report No. 22.

The Selected Papers of Wolfgang Köhler. Mary Henle, Ed. Liveright, New York, 1971. x, 466 pp., illus. \$15.95.

Sensory Processes at the Neuronal and Behavioral Levels. G. V. Gersuni, Ed. Translated by Jerzy Rose. Academic Press, New York, 1971. xiv, 332 pp., illus. \$18.

Soldiers, Scholars and Society. The Social Impact of the American Military. Edward Bernard Glick. Goodyear, Pacific Palisades, Calif., 1971. xvi, 144 pp. Cloth, \$6.95; paper, \$4.95.

Some Properties of Differentiable Varieties and Transformations. With Special Reference to the Analytic and Algebraic Cases. Beniamino Segre. Springer-Verlag, New York, ed. 2, 1971. xii, 198 pp. \$12.70. *Ergebnisse der Mathematik und ihrer Grenzgebiete*, vol. 13.

Stickstoff-Verbindungen I. Part 1, $-\text{NO}_2$, $-\text{NO}$, $>\text{N}-\text{O}-$. Rudolf Stroth, Ed. Thieme, Stuttgart, 1971. xxxii, 1484 pp., illus. DM 528. *Methoden der organischen Chemie*, vol. X/1.

The Study of Biology. Jeffrey J. W. Baker and Garland E. Allen. Addison-Wesley, Reading, Mass., ed. 2, 1971. xviii, 974 pp. + plates. \$11.50.

Surface Chemistry of Biological Systems. Proceedings of an American Chemical Society symposium, New York, September 1969. Martin Blank, Ed. Plenum, New York, 1970. xii, 340 pp., illus. \$12.50. *Advances in Experimental Medicine and Biology*, vol. 7.

Die Systematik der Resonanzen. Rudolf Weckering. Hermann, Luxemburg, 1970. 74 pp., illus. Paper, 180 BF. *Stereophysik*, vol. 8.

Testing Freudian Concepts. An Experimental Social Approach. Irving Sarnoff. Springer, New York, 1971. xii, 276 pp. Cloth, \$8.50; paper, \$5.95.

Textbook of Anatomy and Physiology. Catherine Parker Anthony, with the collaboration of Norma Jane Kolthoff. Mosby, St. Louis, ed. 8, 1971. xii, 580 pp. + plates. \$10.25.

The Uses of Talent. Dael Wolffe. Princeton University Press, Princeton, N.J., 1971. x, 204 pp., illus. \$6.50.

Valyd Verbs. A New Simplified Verb System. Clifford T. Weller. Published by the author, P.O. Box 195, Schenectady, N.Y., 1971. x, 70 pp. \$5.

Water Quality and Treatment. A Handbook of Public Water Supplies. Prepared by the American Water Works Association. McGraw-Hill, New York, ed. 3, 1971. xiv, 654 pp., illus. \$19.50.