



Vignettes: Psychometric Needs

Those who work in the field say that asking governments and technologists to take care of natural resources is just like asking the fox to guard the chicken-coop; politicians reply that trusting biologists and Indians to preserve the natural populations they are studying and using is no better; both have a part of the truth, because there are people on all sides interested only in their own "progress" and not in humanity's future. Someone needs to invent a "motivometer" in order to discover and unite the honest and altruistic idealists on both sides.

—Hamilton A. Tyler, Keith S. Brown Jr., and Kent H. Wilson, in *Swallowtail Butterflies of the Americas: A Study in Biological Dynamics, Ecological Diversity, Biosystematics, and Conservation* (Scientific Publishers)

They will be telling us some day of the WEIGHT of the MOON, even to *drams, scruples, and grains*—nay, to the very fraction of a grain!—I wish there were infallible experiments to ascertain the *quantum of brains* each man possesses, and every man's *integrity and candour*:—This is a *desideratum* in science which is most of all wanted.

—Robert Harrington, in *The Death-Warrant of the French Theory of Chemistry* (1804), as quoted by Jan Golinski in *The Values of Precision* (M. Norton Wise, Ed.; Princeton University Press)

isfy scientific inquiry in a sometimes chaotic environment with competing priorities and limited resources."

As a compilation of what over 23 million dollars and thousands of hours of effort by some of our nation's best-trained marine biologists and veterinarians can buy, what does the book tell us was learned? Remarkably little for some species (including most cetaceans), but a significant amount for others, particularly sea otters and harbor seals. In some chapters, the conclusions reached seem feeble, given the data. This may in part reflect concern about litigation, but in most cases the equivocalness of authors can be attributed to the logistical constraints of sampling wide-ranging animals in a large, remote area; to the inadequacy of baseline data; to a lack of preplanning; and to the fact that most marine mammals apparently sink after dying. Despite these difficulties, data presented in several chapters provide empirical support for previously unconfirmed hypotheses and show that researchers obtained significant new information. The observational and anecdotal information presented demonstrates that most marine mammals do not avoid oil and that shoreline cleanup does not prevent pinnipeds from becoming oiled; forensic and behavioral evidence demonstrates that hypothermia is the critical factor leading to death in sea otters. In chapter 13, Williams *et al.* conclude that if nonendangered pinnipeds are oiled with weathered or the nonvolatile fractions of crude oil, it may be best to leave them alone rather than subject them to the

stress of capture, cleaning, and rehabilitation. However, nearly all authors addressing the issue concede that little is known about the long-term or chronic impact of oiling on mammals, and the effect on marine mammals may be further compounded by their long migrations, prolonged fasting, and the physiology of diving. Finally, it is apparent from the data presented in this book that the acute toxicity of newly spilled oil begins to affect animals severely within hours of a spill and that scientific protocols must be already in place if we hope to document these effects.

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Books Received

Advances in Nutritional Research. Vol. 9, Nutrition and Osteoporosis. Harold H. Draper, Ed. Plenum, New York, 1994. xxii, 313 pp., illus. \$79.50.

Advances in Psychoneuroimmunology. Istvan Berczi and Judith Szélenyi, Eds. Plenum, New York, 1994. xviii, 371 pp., illus. \$95. Hans Selye Symposia on Neuroendocrinology and Stress, vol. 3.

Advances in the Applications of Membrane-Mimetic Chemistry. Teh Fu Yen, Richard D. Gilbert, and Janos H. Fendler, Eds. Plenum, New York, 1994. xii, 285 pp., illus. \$89.50. Based on a symposium, Atlanta, GA, Apr. 1991.

An Adventurer's Guide to Number Theory. Richard Friedberg. Dover, New York, 1994. 235 pp., illus. Paper, \$6.95. Reprint, 1968 ed.

After the Fact. Two Countries, Four Decades, One Anthropologist. Clifford Geertz. Harvard University Press, Cambridge, MA, 1995. viii, 198 pp. \$22.95. Jerusalem-Harvard Lectures.

AIDS and HIV in Perspective. A Guide to Understanding the Virus and Its Consequences. Barry D. Schoub. Cambridge University Press, New York, 1994. xx, 268 pp., illus. \$65; paper, \$19.95.

Always, Rachel. The Letters of Rachel Carson and Dorothy Freeman, 1952-1964. Martha Freeman, Ed. Beacon, Boston, 1995. xxxii, 569 pp., illus., + plates. \$35.

American Higher Education. A History. Christopher J. Lucas. St. Martin's, New York, 1995. xxii, 375 pp. \$39.95.

Animals with Novel Genes. Norman Maclean, Ed. Cambridge University Press, New York, 1995. xii, 266 pp., illus. \$49.95.

Ape, Man, Apeman. Changing Views since 1600. Raymond Corbey and Bert Theunissen, Eds. Department of Prehistory, Leiden University, Leiden, The Netherlands, 1995. viii, 411 pp., illus. Paper, Dfl. 45. From a symposium, Leiden, June-July 1993.

Atoms in Electromagnetic Fields. C. Cohen-Tannoudji. World Scientific, River Edge, NJ, 1994. xiv, 670 pp., illus. \$108; paper, \$53. World Scientific Series on Atomic, Molecular and Optical Physics, vol. 1.

Automotive Paints and Coatings. Gordon Fettes, Ed. VCH, New York, 1995. xvii, 240 pp., illus. \$130.

The Barrel Cortex of Rodents. Edward G. Jones and Irving T. Diamond, Eds. Plenum, New York, 1994. xvi, 446 pp., illus. \$110. Cerebral Cortex, vol. 11.

Biochemistry. Donald Voet and Judith G. Voet. 2nd ed. Wiley, New York, 1995. xviii, 1361 pp., illus. \$76.95.

Biodiversity Gap Analysis. Critical Challenges and Solutions. Gary E. Machlis, Deborah J. Forester, and Jean E. McKendry. Idaho Forest, Wildlife and Range Experiment Station, University of Idaho, Moscow, ID, 1994. vi, 61 pp., illus. Paper, \$5. Contribution no. 736. Based on a workshop, Semiahmoo, WA, Feb. 1994.

Biology. The Unity and Diversity of Life. Cecie Starr and Ralph Taggart. 7th ed. Wadsworth, Belmont, CA, 1994. xl, 934 pp., illus., + appendix + index. \$63.50.

Biology Fundamentals. Gil Brum, Larry McKane, and Gerry Karp. Wiley, New York, 1995. xxviii, 660 pp., illus. Paper, \$54.95.

Biology of Economic Algae. I. Akatsuka, Ed. SPB Academic, The Hague, 1994. x, 547 pp., illus. \$125 or Dfl. 220.

The Biology of Nitric Oxide. Part 3, Physiological and Clinical Aspects. S. Moncada *et al.*, Eds. Portland, Chapel Hill, NC, 1995. xx, 551 pp., illus. \$212 or £132. Portland Press Proceedings no. 8. From a meeting, Cologne, Germany, Oct. 1993.

Botany in India. History and Progress. Vol. 1. B. M. Johri, Ed. Science Publishers, Lebanon, NH, 1994. xxxii, 521 pp., illus. \$85.

The Caspian Sea. A. N. Kosarev and E. A. Yablonskaya. SPB Academic, Amsterdam, 1994. xiv, 259 pp., illus. \$66 or Dfl. 115. Translated from the Russian by A. K. Wistlin.

Charles Darwin. Voyaging. Janet Browne. Knopf, New York, 1994. xvi, 606 pp., illus. \$35 or \$C49. First volume of a biography.

Chemical Pretreatment of Nuclear Waste for Disposal. Wallace W. Schulz and E. Philip Horvitz, Eds. Plenum, New York, 1994. viii, 212 pp., illus. From a symposium, Washington, DC, Aug. 1992.

Climate Change and the Agenda for Research. Ted Hanisch, Ed. Westview, Boulder, CO, 1994. vii, 223 pp., illus. \$45.

Collision- and Interaction-Induced Spectroscopy. G. C. Tabisz and M. N. Neuman, Eds. Kluwer, Norwell, MA, 1994. xiv, 588 pp., illus. \$269 or £176.50 or Dfl. 420. NATO ASI Series C, vol. 452. From a workshop, Banff, Alberta, Canada, Aug.-Sept. 1993.

Combinatorics. Topics, Techniques, Algorithms. Peter J. Cameron. Cambridge University Press, New York, 1995. x, 355 pp., illus. \$59.95; paper, \$24.95.

Compendium of Practical Astronomy. Günter Dietmar Roth, Ed. Springer-Verlag, New York. Vol. 1, Instrumentation and Reduction Techniques. xxiv, 540 pp., illus. Vol. 2, Earth and Solar System. xx, 362 pp., illus. Vol. 3, Stars and Stellar Systems. xx, 321 pp., illus. Paper; the set, \$125. Translation and revision of German edition (Berlin, 1994) by Harry J. Augensen and Wulf D. Heinz.

Complex Ecology. The Part-Whole Relation in Ecosystems. Bernard C. Patten and Sven E. Jørgensen, Eds. Prentice Hall, Englewood Cliffs, NJ, 1995. xxx, 705 pp., illus. \$99.

Computational Physics. An Introduction. Franz J.

Vesely. Plenum, New York, 1994. xvi, 276 pp., illus. \$59.50.

Confessions of a Technophile. Lewis M. Branscomb. AIP Press, Woodbury, NY, 1995. xiv, 258 pp., illus. \$29.95. Masters of Modern Physics, vol. 13.

Conservation. Replacing Quantity with Quality as a Goal for Global Management. Carl F. Jordan. Wiley, New York, 1995. xvi, 340 pp. + plates, illus. \$61.95.

Corporate Environmental Strategy. The Avalanche of Change Since Bhopal. Bruce W. Piasecki. Wiley, New York, 1995. xvi, 180 pp., illus. \$24.95.

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Diet and Disease. E. Cherskine, W. M. Ringsdorf, Jr., and J. W. Clark. 3rd ed. Keats, New Canaan, CT, 1995. xiv, 369 pp., illus. Paper, \$14.95.

The Differences Between the Sexes. R. V. Short and E. Balaban, Eds. Cambridge University Press, New York, 1994. xvi, 479 pp., illus. \$100; paper, \$29.95. From a conference, Crans-sur-Sierre, Switzerland, Sept. 1992.

Elements of Pennsylvanian Stratigraphy, Central Appalachian Basin. Charles L. Rice, Ed. Geological Society of America, Boulder, CO, 1994. iv, 155 pp., illus. Paper, \$40. Special Paper 294.

The Enigmatic Photon. Vol. 1, The Field $B^{(2)}$. Myron Evans and Jean-Pierre Vigié. Kluwer, Norwell, MA, 1994. x, 217 pp. \$99 or £64 or Dfl. 160. Fundamental Theories of Physics; vol. 64.

The Environmental Dictionary and Regulatory Cross-Reference. James J. King, compiler. 3rd ed. Wiley, New York, 1995. xviii, 1297 pp. \$95.

Environmental Physics. Egbert Boeker and Rienk van Grondelle. Wiley, New York, 1995. xiv, 448 pp., illus. Paper, \$34.95.

Environmental Sampling for Trace Analysis. Bernd Markert, Ed. VCH, New York, 1994. xxx, 524 pp., illus. \$145.

Enzyme Kinetics. From Diastase to Multi-Enzyme

Systems. Arthur R. Schulz. Cambridge University Press, New York, 1995. x, 246 pp., illus. \$59.95; paper, \$29.95.

Equilibrium Statistical Physics. Michael Plischke and Birger Bergersen. 2nd ed. World Scientific, River Edge, NJ, 1994. xvi, 520 pp., illus. \$78; paper, \$38.

Eros and Evolution. A Natural Philosophy of Sex. Richard E. Michod. Addison-Wesley, Reading, MA, 1995. xxiv, 241 pp., illus. \$25 or \$C31.95.

Evolutionary History of the Marsupials and an Analysis of Osteological Characters. Frederick S. Szalay. Cambridge University Press, New York, 1995. xii, 481 pp., illus. \$84.95.

Excursions in Mathematics. C. Stanley Ogilvy. Dover, New York, 1994. viii, 162 pp., illus. Paper, \$5.95. Reprint, 1956 ed.

Fractal Functions, Fractal Surfaces, and Wavelets. Peter R. Massopust. Academic Press, San Diego, CA, 1994. xii, 383 pp., illus., + plates. \$49.95.

Fractals in Petroleum Geology and Earth Processes. Christopher C. Barton and Paul R. La Pointe, Eds. Plenum, New York, 1994. xxiv, 317 pp., illus. \$85.

The Future of Software. Derek Leebeart, Ed. MIT Press, Cambridge, MA, 1995. xvi, 300 pp., illus. \$24.95.

The High Latitude Heliosphere. R. G. Marsden, Ed. Kluwer, Norwell, MA, 1994. xvi, 498 pp., illus. \$125 or £82 or Dfl. 195. From a symposium, Friedrichshafen, Germany, April 1994. Reprinted from *Space Science Reviews*, vol. 72, nos. 1-2.

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How to Solve Mathematical Problems. Wayne A. Wickelgren. Dover, New York, 1994. x, 262 pp., illus. Paper, \$7.95. Reprint, 1974 ed.

Human Biodiversity. Genes, Race, and History. Jonathan Marks. Aldine de Gruyter, Hawthorne, NY, 1995. xiv, 321 pp., illus. \$46.95; paper, \$23.95. Foundations of Human Behavior.

Hydrodynamics of Oil and Gas. Ian Lerche and René O. Thomsen. Plenum, New York, 1994. xii, 308 pp., illus., + diskette. \$75.

The Internet for Scientists and Engineers. Online Tools and Resources. Brian J. Thomas. SPIE Press, Bellingham, WA, 1995. xx, 452 pp., illus. Paper, \$30. SPIE Press Monograph, vol. PM21.

An Interpretive Introduction to Quantum Field Theory. Paul Teller. Princeton University Press, Princeton, NJ, 1995. x, 176 pp., illus. \$35 or £23.50.

Introduction to Geomagnetically Trapped Radiation. Martin Walt. Cambridge University Press, New York, 1995. xx, 168 pp., illus. \$49.95. Cambridge Atmospheric and Space Science Series.

An Introduction to Lebesgue Integration and Fourier Series. Howard J. Wilcox and David L. Myers. Dover, New York, 1994. viii, 159 pp., illus. Paper, \$8.95. Reprint, 1978 ed.

Introduction to the Construction of Class Fields. Harvey Cohn. Dover, New York, 1994. x, 213 pp., illus. Paper, \$7.95. Reprint, 1985 ed.

Introduction to the Theory of the Integer Quantum Hall Effect. M. Janssen *et al.* János Hajdu, Ed. VCH, New York, 1994. 296 pp., illus. \$75; paper, \$45.

Invasions of the Land. The Transitions of Organisms from Aquatic to Terrestrial Life. Malcolm S. Gordon and Everett C. Olson. Columbia University Press, New York, 1995. xix, 312 pp., illus. \$65 or £49.

Local Analysis. Carl-Heinz Scriba. Akademie Verlag, Berlin 1994 (U.S. distributor, VCH, New York). Part A, Foundations and Differential Calculus. xii, 240 pp. \$50. Part B, First Order Differential Equations and Differential Forms. xii, 330 pp. \$70.

Long-Term Experiments in Agricultural and Ecological Sciences. R. A. Leigh and A. E. Johnston,

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Eds. CAB, Oxford, UK, 1994. xiv, 428 pp., illus. \$95. From a conference, Harpenden, UK, July 1993.

The Man in the Ice. The Discovery of a 5,000-Year-Old Body Reveals the Secrets of the Stone Age. Konrad Spindler *et al.* Harmony, New York, 1995. xiv, 305 pp., illus., + plates. \$25. Translation of the German edition (Munich, 1994) by Ewald Osers.

Microcharacterization of Proteins. R. Kellner, F. Lottspeich, and H. E. Meyer. VCH, New York, 1994. xvi, 267 pp., illus. Paper, \$75. From a workshop, Martinsried, Germany, June 1994.

Modernism, Medicine, and William Carlos Williams. T. Hugh Crawford. University of Oklahoma Press, Norman, 1995. xii, 195 pp. Paper, \$15.95. Oklahoma Project for Discourse and Theory, vol. 1.

Molecular Basis of Thrombosis and Hemostasis. Katherine A. High and Harold R. Roberts, Eds. Dekker, New York, 1995. xiv, 671 pp., index. \$195.

Molecular Mechanisms of the Immune Response. W. F. Bodmer and M. J. Owen, Eds. Cold Spring Harbor Laboratory Press, Cold Spring Harbor, NY, 1994. vi, 123 pp., illus. \$75. Cancer Surveys, vol. 22.

Molecular Methods for Virus Detection. Danny L. Wiedbrauk and Daniel H. Farkas, Eds. AP Professional (Academic), Cambridge, MA, 1995. xvi, 386 pp., illus. Spiralbound, \$59.95.

My Best Mathematical and Logic Puzzles. Martin Gardner. Dover, New York, 1994. viii, 82 pp., illus. Paper, \$3.95.

The Norton History of Technology. Donald Cardwell. Norton, New York, 1995. xviii, 565 pp., illus. \$35; paper, \$18.95. Norton History of Science. Published in UK as *The Fontana History of Astronomy and Cosmology*.

The Nuclei of Normal Galaxies. Lessons from the Galactic Center. R. Genzel and A. I. Harris, Eds. Kluwer, Norwell, MA, 1994. xxvi, 499 pp., illus. \$212 or £139 or Dfl. 330. NATO ASI Series C, vol. 445. From a workshop, Schloss Ringberg, Kreuth, Bavaria, Germany, July 1993.

Oscillatory Event-Related Brain Dynamics.

Christo Pantev, Thomas Elbert, and Bernd Lütkenhöner, Eds. Plenum, New York, 1994. x, 468 pp., illus. \$120. NATO ASI Series A, vol. 271. From a workshop, Tecklenburg, Germany, Sept. 1993.

Parcelle '94. Chris Jesshope, Vesselin Jossifov, and Wolfgang Wilhelmi, Eds. Akademie Verlag, Berlin, 1994 (U.S. distributor, VCH, New York). 347 pp., illus. \$80. Mathematical Research, vol. 81. From a workshop, Potsdam, Germany, Sept. 1994.

People and Computers IX. G. Cockton, S. W. Draper, and G. R. S. Weir, Eds. Cambridge University Press, New York, 1995. xii, 428 pp., illus. Paper, \$59.95. From a conference, Glasgow, 1994.

Phanerozoic Stromatolites II. Janine Bertrand-Sarfati and Claude Monty, Eds. Kluwer, Norwell, MA, 1994. xii, 471 pp., illus. \$183 or £122 or Dfl. 320.

The Poetics of Perspective. James Elkins. Cornell University Press, Ithaca, NY, 1995. xviii, 324 pp., illus. \$39.95.

Prospects in Nanotechnology. Toward Molecular Manufacturing. Markus Krummenacker and James Lewis, Eds. Wiley, New York, 1995. xviii, 297 pp., illus. \$49.95. From a conference, Palo Alto, CA, Nov. 1992.

Protein-Solvent Interactions. Roger B. Gregory, Ed. Dekker, New York, 1994. xx, 570 pp., illus. \$185.

Proteins. Structure, Function, and Engineering. B. B. Biswas and Siddhartha Roy, Eds. Plenum, New York, 1995. xx, 436 pp., illus. \$120. Subcellular Biochemistry, vol. 24.

Pseudo-Differential Boundary Value Problems, Conical Singularities, and Asymptotics. Bert-Wolfgang Schulze. Akademie Verlag, Berlin, 1994 (U.S. distributor, VCH, New York). 580 pp. \$95. Mathematical Topics, vol. 4.

Pseudo-Differential Calculus and Mathematical Physics. Michael Demuth, Elmar Schrohe, and Bert-Wolfgang Schulze, Eds. Akademie Verlag, Berlin, 1994 (U.S. distributor, VCH, New York). 392 pp. \$80. Mathematical Topics, vol. 5. Advances in Partial Differential Equations.

Psychosomatics, Psychoanalysis, and Inflammatory Disease of the Colon. Charles C. Hogan. International Universities Press, Madison, CT, 1995. xvi, 274 pp. \$45. Stress and Health Series, Monograph 5.

Reasons for Living. Expanding the Conversation on Student-Teacher Collaboration. John G. Nicholls and Theresa A. Thorkildsen, Eds. Teachers College Press, New York, 1994. xii, 180 pp., illus. Paper, \$16.95.

Regulation of Breathing. Jerome A. Dempsey and Allan I. Pack, Eds. 2nd ed. Dekker, New York, 1995. xxii, 1219 pp., illus. \$195. Lung Biology in Health and Disease, 79.

Reversals of the Earth's Magnetic Field. J. A. Jacobs. 2nd ed. Cambridge University Press, New York, 1995. x, 346 pp., illus. \$64.95.

Selected Papers of J. M. Burgers. F. T. M. Nieuwstadt and J. A. Steketee, Eds. Kluwer, Norwell, MA, 1994. cx, 650 pp., illus. \$317 or £208 or Dfl. 495.

The Shifting Realities of Philip K. Dick. Selected Literary and Philosophical Writings. Lawrence Sutin, Ed. Pantheon, New York, 1995. xxx, 351 pp., illus. \$27.50.

Sol-Gel Processing and Applications. Yosry A. Attia, Ed. Plenum, New York, 1994. xii, 394 pp., illus. From a symposium, Chicago, IL, Aug. 1993.

Stable Methods for Ill-Posed Variational Problems. Prox-Regularization of Elliptic Variational Inequalities and Semi-Infinite Problems. Alexander Kaplan and Rainer Tichatschke. Akademie Verlag, Berlin, 1994 (U.S. distributor, VCH, New York). 437 pp. \$75. Mathematical Topics, vol. 3.

Standardization of Epidemiologic Studies of Host Susceptibility. Janice S. Dorman, Ed. Plenum, New York, 1994. xii, 285 pp., illus. \$89.50. NATO ASI Series A, vol. 270. From a workshop, Pittsburgh, PA, June 1992.

Writing Organic Reaction Mechanisms. A Practical Guide. Michael Edenborough. Taylor and Francis, Philadelphia, 1994. xiv, 420 pp., illus. Paper, \$29.95.

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