

**The personality puzzle, 4th ed.**

Funder, David C.  
*W.W. Norton, ©2007* 641+ p. \$60.00

Armed with a portfolio of cartoons, clinical photographs, and illustrations, Funder (psychology, U. of California, Riverside) continues his tradition of explaining how personality (patterns of thought, emotion and behavior along with their psychological underpinnings) relates to that odd experience called "life." He thoroughly updates his material according to the most recent findings as he examines research methods in personality, trait approaches, biological approaches, humanistic and cross-cultural psychology, and the role personality plays in learning, thinking, feeling and knowing. Along the way he describes the basic sources of data in the study of personality and the study as a science, the consequences of personality testing, using personality traits to understand behavior, the workings of the unconscious mind according to Freud and those who followed, the validity of experience and the meaning of life, culturally-inspired variations in personality, learning to be a person, processes, and what you really know about yourself.

BF719 2006-036881 978-1-4051-5392-8

**The amazing infant.**

Field, Tiffany.  
*Blackwell Publishing, ©2007* 330 p. \$29.95 (pa)

For researchers and parents, Field (pediatrics, psychology, and psychiatry, U. of Miami School of Medicine) summarizes new studies on infant development. She does not review the basics of development, but rather describes the methods and measures of understanding it, factors that influence prenatal growth and development, the perinatal period, recent data on the senses, parent-infant interaction, and emotional, personality, motor, cognitive, language, and social development.

BF723 2006-038320 978-1-57331-643-9

**Resilience in children.**

Title main entry. Ed. by Barry M. Lester et al. (*Annals of the New York Academy of Sciences; v.1094*)  
*Blackwell Publishing, ©2006* 370 p. \$140.00 (pa)

This volume of the *Annals of the New York Academy of Sciences* contains papers from the conference of the same name held in February 2006 in Arlington, Virginia. A keynote address is followed by 41 papers on the neurobiology of resilience and its behavioral aspects with a focus on the potential of neurobiological processes to advance the field. The conference aimed to consider both behavioral- psychological and neurobiological aspects of resilience and the integration of these perspectives. Coverage is of child, family, relationship, and broader environmental factors; prevention; emotion regulation; genetics; neuroendocrine processes; and neuroscience and intervention. The final section contains short papers selected from the poster session. Contributors are psychology, child development, and medical specialists and researchers from around the world. Only a contributor index is provided.

BF724 2006-101429 978-1-932529-25-8

**Getting to know the life stories of older adults; activities for building relationships.**

Laurenhue, Kathy.  
*Health Professions Press, ©2007* 208 p. \$39.95 (pa)

This book contains group exercises and mini-exercises for getting to know the lives of older adults, with the aims of building positive relationships, fostering self-awareness, and improving self-esteem and brain power. The exercises cover the background, personal preferences, and social history of older adults and are meant for use in schools, church groups, social organizations, senior centers, and residential care settings. The book does not describe how to write a life story. In an appendix, the author discusses how to work with participants who have dementia. Handouts and a CD, which contains printable versions of the handouts and art templates, are included. Laurenhue is the founder of a company focused on training and curriculum development for elder care professionals.

**RELIGION, HISTORY**

BP190 2007-000423 978-0-313-33576-1

**Science and Islam.**

Iqbal, Muzaffar. (*Greenwood guides to science and religion*)  
*Greenwood Press, ©2007* 233 p. \$65.00

Scientist, Islamic scholar, novelist, and poet Iqbal (Center for Islam and Science, Canada) first explains why the two-entity model of science and religion developed to analyze Western Christianity does not apply to Islam. Then he explores such questions as what was Islamic in Islamic science, whether there were tensions within the Islamic tradition that may have inhibited the full blossoming of scientific activity, how Islamic scientific knowledge was passed to Europe, and what new facets of the relationship between science and Islam have appeared in the post-Scientific Revolution era.

DA801 978-1-876843-46-5

**A social history of science and technology in contemporary Japan; v.4: Transformation period, 1970-1979.**

Title main entry. Ed. by Shigeru Nakayama and Hitoshi Yoshioka. (*Modernity and identity in Asia series*)  
*Trans Pacific Press, ©2006* 580 p. \$109.95

Marked by Minamata Disease, the oil crisis of 1973, trade friction with the US, and a general understanding that the economic and financial environment was worsening rapidly, the 1970s would appear to contain the seeds of destruction of what had become Japan. However, as these 50 contributors show, significant growth in both basic and applied research in fields ranging from electronics to food production continued and increased in intensity, addressing the very issues that had caused such alarm, creating the next wave of knowledge-based high-technology products and companies. Specific topics include the role of citizen's groups in improving public safety and locating nuclear energy plants, the development of think tanks, problems with compulsory health insurance, the unmet need for researchers, changes in funding of academic projects, and developments in specific fields such as the liberalization of the computer industry and the automation of manufacturing. Distributed in the US by ISBS.

**GEOGRAPHY, OCEANOGRAPHY, ENVIRONMENT**

F106 2006-004628 978-0-8139-2585-1

**E40 degrees; an interpretive atlas.**

Williams, Jack.  
*U. of Virginia Press, ©2006* 248 p. \$30.00 (pa)

Through a series of essays, Williams (landscape architecture, Auburn U.) explores the small towns that lie within the mountains and river valleys in the great cordillera of the Appalachian Mountains, which runs east 40 degrees from Alabama through 15 states to the coast of Maine. The area offers multiple layers of history and geography that make such a comparative study of places both richer and more informative by allowing the reader to see the tenuous web of connections between people and the natural processes that shape the earth. The text is illustrated throughout with b&w and color archival and recent photographs, maps, and architectural diagrams. Academic but accessible to the general reader. (For those who need this info, Library of Congress catalogs the book title as *East 40 degrees.*) Oversize: 9x10.5"

G70 978-0-19-555607-0

**Geographical information systems; an introduction, 2d ed.**

Delaney, Julie and Kimberly Van Niel.  
*Oxford U. Press, ©2007* 214 p. \$45.00 (pa)

Without focusing on a particular software package, one former and one current lecturer in GIS at the University of Western Australia explain the structure, creation, storage, and output of GIS data, and describe vector and raster geoprocessing tools for spatial analysis. The second edition adds a glossary and comments from the Australian GIS workplace.

- G70 2006-025884 978-0-8493-7526-2  
**GIS applications in agriculture. (CD-ROM included)**  
 Title main entry. Ed. by Francis J. Pierce and David Clay. (GIS applications for agriculture; v.1)  
 CRC Press, ©2007 203 p. \$119.95  
 The series is intended to promote the use of Geographical Information Systems (GIS) in agriculture by providing a venue for practitioners and researchers to share their knowledge and experience with each other and with others in the industry who might consider the approach. Volumes will appear periodically as need and resources allow, and of course depending on the weather. In the first volume, contributors from GIS and from agriculture discuss such topics as managing nitrogen in sugar beet using remote sensing and GIS, developing productivity zones from multiple years of yield monitor data, and assessing variable-depth tillage. The disk contains data-sets described in the text.
- G70 2006-032486 978-0-471-74697-3  
**Hyperspectral data exploitation; theory and applications.**  
 Title main entry. Ed. by Chin-I Chang.  
 Wiley-Interscience, ©2007 430 p. \$120.00  
 This collection of articles explains the theory and practices behind this popular remote sensing technique. Contributors describe tutorials, specifically hyperspectral imaging systems and information-processed matching filters for hyperspectral target detection and classification, theory, including an optical real-time adaptive spectral identification system, stochastic mixture modeling, unmixing hyperspectral data through independent and dependent component analysis, maximum volume transform for end member spectra determination, hyperspectral data representation, optimal and selection and utility evaluation for spectral systems, feature reduction for classification purposes, and semi-supervised support vector machines for classification of hyperspectral remote sensing devices. Applications include decision fusion of hyperspectral classification, morphological hyperspectral image classifications in a parallel processing perspective and three-dimensional wavelet-based compression of hyperspectral imagery.
- G855 2006-031326 978-0-415-97024-2  
**Encyclopedia of the Antarctic; 2v.**  
 Title main entry. Ed. by Beau Riffenburgh.  
 Routledge, ©2007 1232 p. \$425.00  
 From "adaptation and evolution" to "zooplankton and krill," the 495 alphabetical entries in this encyclopedia assembled by Riffenburgh (Scott Polar Research Institute, U. of Cambridge, UK) provide a cross-disciplinary summary of the field of knowledge concerning the Antarctic. They range from short 500-word factual entries to longer 6,000-word thematic and analytical discussions. Thematically, the entries cover atmosphere and climate; birds; conservation and human impact; geography; geology; glaciology; history, exploration, and history of science; marine biology; marine mammals; oceanography; research programs, international organizations; and the Antarctic Treaty System; sea ice; solar-terrestrial physics and astronomy; technology and transport; and terrestrial biology and limnology. Each entry includes a list of references and further reading. Also included are 16 maps; an analytical index; and appendices providing the texts of the Antarctic Treaty and the Protocol on Environmental Protection to the Antarctic Treaty, a list of treaty signatories, a chronology of Antarctic exploration, a list of Antarctic academic journals, a list of scientific research stations in the region as of the austral winter of 2005, and the SCAR Code of Conduct for Use of Animals for Scientific Purposes in Antarctica.
- GB591 978-1-86239-189-5  
**Alluvial fans; geomorphology, sedimentology, dynamics.**  
 Title main entry. Ed. by A.M. Harvey et al. (Special publications; 251)  
 Geological Society Pubg. House, ©2005 248 p. \$150.00  
 Two research groups of the Geological Society of London claim that they chose Sorbas, in southeastern Spain as the cite for 2003 a conference on alluvial fans because it is a tectonically active dry region with a wide range of Quaternary alluvial fans. But it was June, and any excuse for Brits to go to Spain will do. Of the presentations there, 15 were selected for publication here. Their topics include the fluvial mega-fan of Abarkoh Basin in central Iran as an example of flash-flood sedimentation in arid lands, climate controls of alluvial-fan activity in the Coastal Cordillera of northern Chile, and Tertiary alluvial fans at the northern margin of the Ebro Basin. Many of the papers have also been published elsewhere. There is no index. Distributed in the US by American Association of Petroleum Geologists.
- GC11 2006-047235 978-0-393-92629-3  
**Introduction to ocean sciences, 2d ed.**  
 Segar, Douglas A.  
 W.W. Norton, ©2006 581+ p. \$76.50  
 Segar (oceanography, U. of Liverpool, England) created this introductory ocean sciences text to be adapted for undergraduates at varying math and science levels. Topics addressed include: plate tectonics, water and seawater and their physical properties, ocean-atmosphere interactions, waves, tides, coastal oceans and estuaries, marine ecology, and pollution. Updates to this second edition include new opening vignettes and expanded coverage of the history of ocean exploration, the formation of the universe as related to water, taxonomy, and special ocean ecosystems. Critical thinking questions, chapter reviews, and abundant color images support the text.
- GC28 978-82-519-2184-8  
**The Norwegian coastal current; oceanography and climate.**  
 Title main entry. Ed. by Roald Saetre.  
 Tapir Academic Press, ©2007 159 p. \$98.00  
 Oceanographers from the Institute of Marine Research in Bergen, and other scientists also mostly from Norway, summarize the current knowledge of the physical and chemical properties and dynamics of the Norwegian Coastal Current at a level accessible to non-specialists. The topics include driving forces, the temporal and spatial distribution of nutrients, water exchange between the coast and fjords, and climate changes. Color illustrations adorn nearly every page. There is no index. Distributed in the US by ISBS.
- GC97 2006-029752 978-1-4051-4642-5  
**Estuaries; monitoring and modeling the physical system.**  
 Hardisty, Jack.  
 Blackwell Publishing, ©2007 157 p. \$59.95  
 Hardisty (environmental physics, U. of Hull) examines the complex elements of estuary systems, including constantly changing depths, rapidly reversing currents, and capability of transporting vast quantities of salt, heat and sediment. Working from a computer model on the website provided by the publisher, Hardisty introduces estuary systems and their classifications, then describes monitoring those systems, understanding and modeling their bathymetry, tracking and modeling tides and currents, measuring and modeling salinity and temperature, and creating a model for particulate matter. He provides a model validation for each section, dynamic Internet references, Excel routines for individual formulae and diagrams, and full coding for the estuary model.
- GC877 2006-045084 978-0-88135-373-0  
**Extremes; oceanography's adventures at the Poles.**  
 Title main entry. Ed. by Keith R. Benson and Helen M. Rozwadowski.  
 (Maury workshop; 4)  
 Science History Pubns., ©2006 393 p. \$54.95  
 Rozwadowski (history and maritime studies, U. of Connecticut, Avery Point) and Benson (history, U. of British Columbia, Canada) compile 12 chapters from the Fourth Maury Conference and Workshop in Barrow, Alaska, on the history of oceanography, with a focus on the polar regions. Contributors in oceanography, science, and history from North America and Europe discuss ideas about the Arctic in the nineteenth century, German Antarctic expeditions in the early twentieth century, the role of the southern ocean in models of ocean circulation, and how the Arctic became a militarized zone during World War II and a battleground during the Cold War. Other chapters detail the growth of programs in the latter part of the century, China's involvement in the field, and marine botany. The final chapter consists of a bibliography on material by scientists, historians, and other scholars on developments in marine polar science in the twentieth century.
- GE45 2006-026849 978-0-8031-4475-0  
**ASTM standards related to environmental site characterization; 2006, 3d ed.**  
 Title main entry.  
 ASTM International, ©2006 2031 p. \$225.00 (pa)  
 The American Society for Testing and Materials (ASTM) International presents an updated compilation of industry relevant standards for environmental site characterization and geophysics, incorporating changes since publication of the previous edition in 2005. The resource text is designed for industry professionals involved in environmental sampling, to assist them in preparing a thorough and detailed sampling plan and in selecting the most technically correct sampling methods and equipment, and to ensure the accuracy of the sampling handling during shipment to laboratories. Illustrated throughout with b&w diagrams, charts and tables.

GE45 2006-030555 978-0-415-30054-4  
**Environment modeling; a practical introduction. (CD-ROM included)**

Barnsley, Michael J.  
CRC / Taylor & Francis, ©2007 406 p. \$99.95

Barnsley (environment and society, Swansea U., Wales) introduces undergraduate and even some graduate students of the environmental sciences to the methods, techniques, and skills involved in the increasingly complex computerized environmental modeling. He discusses representing an environmental problem in conceptual terms, formalizing the conceptual model using mathematical expressions, converting the mathematical model into a program that can be run on a home computer (these days maybe cell phone or iPod), and examining the results produced in comparison with observations. The disc contains all the software, data, and compiler programs needed.

GE45 2006-030899 978-0-471-71097-4  
**Fundamentals of environmental sampling and analysis.**

Zhang, Chunlong Carl.  
Wiley-Interscience, ©2007 436 p. \$100.00

Zhang (environmental science and environmental chemistry, U. of Houston-Clear Lake) provides a textbook for graduate and senior undergraduate students in environmental science and engineering, and for practitioners who are either engaged themselves in sampling and analyzing, or interpret environmental data for various purposes. Concentrating on underlying concepts rather than specific techniques, he describes the fundamentals of sampling, selecting standard methods, chemical and instrumental principles, and applying methods to particular contaminants.

GE45 2006-050889 0-8493-7561-4  
**Probability and statistics for environmental science.**

Shaefer, Stacey J. and Louis Theodore.  
CRC / Taylor & Francis, ©2007 367 p. \$99.95

With this new textbook, Theodore (chemical engineering, Manhattan College, New York) and Stacey (affiliation not cited) aim to offer just the information relevant to beginning students of probability and statistics, eliminating the need for instructors to pick and choose from more advanced texts. Thirty chapters cover fundamentals and traditional and contemporary applications, addressing topics that include: permutations and combinations, set notation, conditional probability, exponential distribution, fault tree and even tree analysis, hypothesis test for means and proportions, and nonparametric tests, among others. About 12 problems with solutions are offered in each chapter.

GE149 2006-021775 978-0-7591-1027-4  
**Rethinking environmental history; world-system history and global environmental change.**

Title main entry. Ed. by Alf Hornborg et al. (Globalization and the environment series)  
AltaMira Press, ©2007 408 p. \$95.00

Anthropologists, historians, and economists are among the contributors who highlight how landscape changes and technological innovations are distributed in space, as an alternative to the usual way of looking at environmental history as a collective human experience over time. Their common framework is the World System, which looks at the unequal power relations between rich core areas and impoverished peripheries. In 20 essays they trace social processes in nature, and unravel environmental injustice in the modern world. This is one of two volumes to emerge from a September 2003 conference in Lund, Sweden.

GE170 2006-032036 978-92-808-1127-8  
**Industrial innovation and environmental regulation; developing workable solutions.**

Title main entry. Ed. by Saeed Parto and Brent Herbert-Copley.  
United Nations University Pr., ©2007 305 p. \$36.00 (pa)

In this collection of articles, international experts address the economic liberalization that has failed to serve the public good and the planet's welfare but conclude the problem is more complex than most realize; they argue that universal models do not work and that governments must be context-specific and nonlinear in dealing with their own conflicts between regulation and development. Their reports include case studies from Taiwan, competitiveness in polluting industries, Argentine innovations, the Canadian pulp and paper business, Mexican manufacturing practices, third party performance in Nigeria, clean technology in Japanese chemical manufacturing, next-generation policy instruments, Dutch water subsystems in transition, integration of environmental and innovation policies, and the future of research.

GE180 2006-025466 978-0-8139-2623-0  
**Millipedes and moon tigers; science and policy in an age of extinction.**

Nash, Steve.  
U. of Virginia Press, ©2007 166 p. \$22.95

Nash (journalism, U. of Richmond) describes how science is being used to help protect essential parts of rapidly transforming landscapes, and how it is sometimes ignored, putting those landscapes at risk. He begins about 50 million years ago with drifting continental plates, and moves forward through historical and contemporary times to conservation genetics. For all his hurry, moon tigers seem to have gone extinct before the index was completed. All but one of the 15 chapters have been published previously.

GE190 92-807-2703-6  
**Manual on compliance with and enforcement of multilateral environmental agreements.**

United Nations Environment Programme.  
UN Environment Programme, ©2006 792 p. \$50.00 (pa)

Aimed at treaty negotiators, political officials, lawyers, enforcement officials, legislators, researchers, and other key audiences, this manual provides material aimed towards facilitating the use of the United Nations Environment Programme's "Guidelines on Compliance with and Enforcement of Multilateral Environmental Agreements." Following the structure of the guidelines themselves, first covering compliance and then treating enforcement, the manual explains the text of the guidelines in greater detail, presents illustrative case studies of guideline application approaches from different countries or regarding specific environmental agreements, and provides checklists of best practices. Appendices contain the full text of the Guidelines and other information and resources.

GE195 2007-923418 978-1-888569-90-2  
**Aquatic stewardship education in theory and practice.**

Title main entry. Ed. by Barbara A. Knuth and William F. Siemer.  
(American Fisheries Society; 55)  
American Fisheries Society, ©2007 187 p. \$60.00 (pa)

The Society symposium held in Anchorage, Alaska in September 2005 focuses on organizing the current thinking about how to define, foster, and evaluate desirable aquatic stewardship behaviors, and how to develop the educational programs and other motivating forces underlying such behaviors. Researchers, educators, and fishery practitioners consider such topics as environmental communications for aquatic stewardship, the past and potential role of the Society in fostering stewardship, and the influence of angler value orientations on fisheries stewardship norms. The 18 papers are not indexed.

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## ANTHROPOLOGY

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GN476 2006-019694 1-84545-014-0  
**Local science vs. global science; approaches to indigenous knowledge in international development.**

Title main entry. Ed. by Paul Sillitoe. (Studies in environmental anthropology and ethnobiology; v.3)  
Berghahn Books, ©2007 288 p. \$85.00

The 13 papers are from two anthropology conferences held in Salford and Manchester, England in 2003. Among the topics are traditional medical knowledge and 21st-century healthcare, the many valuations of Amazon Piaroa local knowledge, rubber and farming in Sri Lanka, whether intellectual property protection is a good idea, and scientific models versus local visions of land use change.

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## BUSINESS, INDUSTRY, COMMERCE,

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HD7255 2006-045671 978-0-398-07697-9  
**Principles and practices of case management in rehabilitation counseling, 2d ed.**

Title main entry. Ed. by E. Davis Martin, Jr.  
C.C. Thomas, ©2007 349 p. \$69.95

Written by professors at Auburn and VCU, this graduate textbook describes diagnostic and placement procedures for helping people with disabilities find and maintain gainful employment. The 13 case studies in final section provide a social, medical, psychological, vocational, education, and economic evaluation of a client for practice. The second edition adds a chapter on special education and vocational rehabilitation for teenagers.

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