

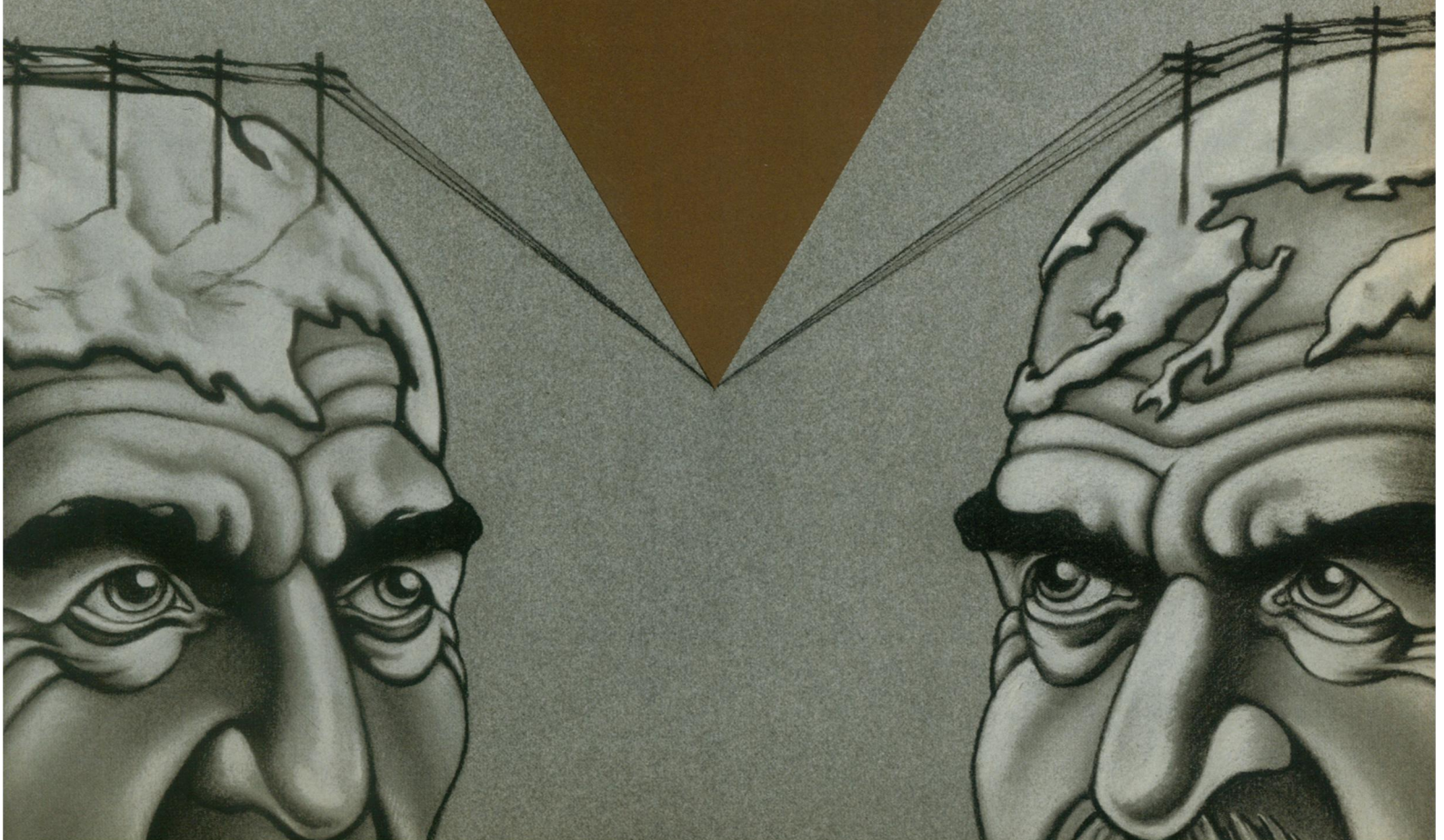
The Weekly Newsmagazine of Science

# SCIENCE NEWS

April 2, 1983  
Vol 123, No 14  
Pages 209-224



Cracking Down on Technology Transfer



**Berlitz®**  
Cassette Course

## What would you give to learn a second language? (Try \$125.) And what's it worth to your company?

There's a premium being paid for language-knowledge in the world today—and it's not only in the export trade. In multi-national companies, in major cities, even on the factory floor, a second language marks you as the potential spokesperson, the well-educated executive, the man or the woman to ask about foreign ways.

**Berlitz®**, the world's best known language instructor, offers you in this delightful 50-lesson do-it-yourself course the opportunity to talk to people in their own language. Available in **French, German, Italian, Spanish**—it's yours for **ONLY \$125.00**.



**MONEY BACK GUARANTEE!** Try this Berlitz course for ten days. If you are not satisfied for any reason, simply return it and obtain a complete refund. You take no risk, so order today!

For your convenience on credit card orders dial toll-free



**1-800-228-2028 ext. 35**

(Nebraska Residents  
Dial 402-571-4900)

and refer to Dept. 9034

**24 hours a day, 7 days a week.**

Why not give us a ring—right now! (our expense)

Packaged solidly in a handsome executive attaché case, the **Berlitz Comprehensive Cassette Course** contains:

1. Ten introductory lessons in a 90-minute long first cassette.
2. Forty additional lessons on five convenient 60-minute cassettes.
3. Six illustrated workbooks to use with the tapes.
4. A specially prepared, easy-to-use Rotary Verb Finder will help you with irregular verb forms—once you're ready for grammar.

**FOR \$125.00** choose the course you need to start talking as if you had always lived there. Use the coupon and order today.

Complete and mail to:

**BERLITZ PUBLICATIONS, INC. Dept. 9034**  
3490 Lawson Blvd., Oceanside, N.Y. 11572

Yes! Please send me your **Berlitz® Comprehensive Cassette Course(s)** at \$125.00 plus \$4.00 for handling and insured delivery.

French 86100     German 86101     Italian 86102     Spanish 86103

Please check method of payment:

- Check or money order—payable to Berlitz.  
 Charge my credit card under their regular terms:  
 American Express     Diners Club     VISA  
 MasterCard InterBank # \_\_\_\_\_

Card # \_\_\_\_\_ Exp. Date \_\_\_\_\_

Name \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Signature \_\_\_\_\_

N.Y. Residents add sales tax. Allow 4 weeks for delivery.

For critical analysis  
of ESP, astrology,  
UFOs, psychics,  
metal bending, etc...

### the **Skeptical Inquirer**

Published quarterly by  
The Committee for the  
Scientific Investigation of  
Claims of the Paranormal  
edited by Kendrick Frazier

Please enter my subscription to  
**THE SKEPTICAL INQUIRER.**

My check is enclosed.

\$16.50 for one year

\$29.00 for two years

\$38.00 for three years

NAME (Please Print) \_\_\_\_\_

ADDRESS \_\_\_\_\_

CITY STATE ZIP \_\_\_\_\_

If outside the U.S., add \$2.50 a year for  
surface postage or \$8.00 for airmail.  
Please pay in U.S. funds on U.S. bank.

**THE SKEPTICAL INQUIRER**  
PO Box 229, Central Park Station  
Buffalo, NY 14215

What is the derivation of  
*Get down to brass tacks?*  
Why is American whiskey  
called *Bourbon*?  
Is *bedlam* derived  
from Bethlehem?  
What is the connection  
between *berserk*  
(Norwegian), *amuck*  
(Malaysian) and *assassin*  
(Arabic)? Why does  
*the cloth* suggest  
clergyman? Answers  
to these and hundreds of  
similar questions about  
our remarkable language  
are discussed here in  
loving detail.

Here, in one marvelously  
entertaining volume,  
are hundreds of intriguing  
stories, legends, facts  
and fallacies about words  
and phrases, their origins  
and their mysteries.  
416 pages. \$17.95

**Harper & Row, Publishers**

# A Browser's Dictionary

A Compendium of  
Curious Expressions  
& Intriguing Facts

John Ciardi

**Science News Book Order Service**  
1719 N Street, N.W., Washington, D. C. 20036

Please send \_\_\_\_\_ copy(s) of  
**A Browser's Dictionary**  
I include a check, payable to  
**Science News Book Order Service,**  
for \$17.95 plus \$1.00 handling  
(total \$18.95) for each copy.

name \_\_\_\_\_

address \_\_\_\_\_

city \_\_\_\_\_

state \_\_\_\_\_ zip \_\_\_\_\_

RB68

# EXPAND YOUR SCIENTIFIC KNOWLEDGE...

## DICTIONARY OF COMPUTING Data Communications, Hardware and Software Basics, Digital Electronics

Edited by Frank J. Galland

A new dictionary that explains the terms of modern computing in a clear and understandable way, making use of numerous illustrations and examples. Produced with the assistance of major manufacturers and suppliers of computer hardware, software, and data communications equipment.

330 pp. (1-10469-8) 1982 \$19.95 (paper)

To Order for Free Examination, Circle Letter A on Order Card

## DICTIONARY OF INFORMATION TECHNOLOGY

Edited by Dennis Longley & Michael Shain

This useful reference defines over 6,000 terms embracing all aspects of information technology, including audio-visual, computing, and communications systems. Essays explore word processing, viewdata networks, micro electronics, typesetting, computer programming, and consumer electronics.

379 pp. (1-89574-1) 1983 \$34.95

To Order for Free Examination, Circle Letter B on Order Card

## INTRODUCTION TO PASCAL FOR SCIENTISTS

James W. Cooper

Using a step-by-step format and easy-to-follow examples, this book shows how to write and run efficient PASCAL programs that take advantage of this language's facility for writing clear, structured, error-free programs.

260 pp. (1-08785-8) 1981 \$24.95

To Order for Free Examination, Circle Letter C on Order Card

## UNDERSTANDING COMPUTERS What Managers and Users Need to Know

Myles E. Walsh

A simple, easy-to-understand, but very practical book that explains what the layman must know if he wants to master computers. It fills the gap between technical references and superficial surveys to equip the reader with basic skills, concepts and facts by discussing hardware, programs, data, operating systems, telecommunications, networks, distributed processing, data bases and more.

266 pp. (1-87417-5) 1982 \$14.95 (paper)

To Order for Free Examination, Circle Letter D on Order Card

## ENCYCLOPEDIA OF COMPOSITE MATERIALS AND COMPONENTS Encyclopedia Reprint Series

Martin Grayson, Series Editor

Taken from the Kirk-Othmer Encyclopedia of Chemical Technology, these outstanding articles on virtually every aspect of composite materials represent the original work of 75 leading authorities.

approx. 1,176 pp. (1-87357-8) May 1983 \$99.50

To Order for Free Examination, Circle Letter E on Order Card

## SCIENCE, TECHNOLOGY, & HUMAN VALUES

Editor: Marcel Chotkowski La Follette

This interdisciplinary journal probes the social and ethical implications of today's science and technology, featuring analyses on such current issues as creationism, arms control, biotechnology, science education, and science and the mass media. Contains regular book reviews, meetings calendars, and much more.

(1-88994-6)

Volume 8, 1983 Published quarterly at \$48 per year  
Outside U.S. add \$14 for surface postage and handling  
To Enter Subscription, Circle Letter F on Order Card

## HANDBOOK OF INDUSTRIAL ENGINEERING

Edited by Gavriel Salvendy

A comprehensive, practical reference that covers the entire spectrum of modern industrial engineering. In more than 2,000 pages it describes and assesses the utility of methods of engineering, quality control, engineering economy, performance measurement, manufacturing engineering, information systems, and quantitative methods.

2,086 pp. (1-05841-6) 1982 \$74.95

To Order for Free Examination, Circle Letter G on Order Card

## ENERGY MANAGEMENT HANDBOOK

Edited by Wayne C. Turner

A practical guide to current techniques and ideas essential to cost reduction and profit improvement through energy management. Shows how to conduct an energy audit.

714 pp. (1-08252-X) 1982 \$59.95

To Order for Free Examination, Circle Letter H on Order Card

## HANDBOOK OF ENERGY TECHNOLOGY AND ECONOMICS

Edited by Robert A. Meyers

A timely compilation of contributions by more than 50 distinguished scientists and engineers on the pressing energy issues of our time. Designed to help in the evaluation and comparison of energy technologies and to spur further research and development in such areas as solar energy, nuclear power, and hydro power.

1,089 pp. (1-08209-0) 1983 \$62.95

To Order for Free Examination, Circle Letter I on Order Card

## NONCONVENTIONAL ENERGY SOURCES

Philip R. Pryde

Provides a basic understanding of the nature and potential of alternative energy sources, including hydroelectric, geothermal, solar, ocean, biomass, electrochemical, nuclear, and tar sands. Examines the advantages and shortcomings of each source, their future, and the problems that have hindered their development.

approx. 288 pp. (1-86807-8) 1983 \$19.95

To Order for Free Examination, Circle Letter J on Order Card

## SYSTEMS ECOLOGY An Introduction

Howard T. Odum

This groundbreaking work offers an integrated theoretical and applied approach to systems ecology, using diagrammatic language to explain basic concepts of systems, modeling and simulation. Briefly examines ecosystems before considering the phenomena of storage and linear systems in several languages.

644 pp. (1-65277-6) 1983 \$49.95

To Order for Free Examination, Circle Letter K on Order Card

## SAMPLING DESIGN AND STATISTICAL METHODS FOR ENVIRONMENTAL BIOLOGISTS

Roger H. Green

Provides, in an organized and compact format, a comprehensive guide to the principles of sampling design and statistical analysis methods. Reviews the principles of inference, sampling and statistical design, hypothesis formulation and testing for ecological data. Includes a simple impact study example.

257 pp. (1-03901-2) 1979 \$29.95

To Order for Free Examination, Circle Letter L on Order Card

To order any of these books for a 15-day Free Trial Examination, circle letter and mail attached postpaid reply cards.

# THESE WILEY BOOKS BRING YOU UP TO DATE

## MEDICAL BOTANY

### Plants Affecting Man's Health

Walter H. Lewis & Memory P.F. Elvin-Lewis

The first reference of its kind ever published—a clearly written, lavishly illustrated volume on injurious, remedial and psychoactive plants. "Skillfully organized, neatly written, highly informative, and well illustrated . . . should be a lasting joy for reference and a source of continued satisfaction."

(*American Scientist*)

515 pp. (1-86134-0) 1977 \$16.95 (paper)

To Order for Free Examination, Circle Letter M on Order Card

## STATISTICS FOR EXPERIMENTERS

### An Introduction to Design, Data Analysis, and Model Building

George E.P. Box William G. Hunter & J. Stuart Hunter

Directed toward the engineer or chemist with little or no formal training in statistics. Demonstrates how to design experimental programs of high statistical and engineering efficiency. Uses a special applied approach in covering hypothesis tests, confidence intervals, comparison of means, t tests, and more.

653 pp. (1-09315-7) 1978 \$35.95

To Order for Free Examination, Circle Letter N on Order Card

## MARINE AQUARIUM KEEPING

### The Science, Animals, and Art

Stephen Spotte

Punctures the myths on marine aquarium upkeep by providing straightforward, technical data that can be easily understood by the layman. Included are descriptions of how to arrange and maintain an aquarium, selection and care of fish, and aquarium decoration.

171 pp. (1-81759-7) 1973 \$17.95

To Order for Free Examination, Circle Letter O on Order Card

## ENGLISH-RUSSIAN, RUSSIAN-ENGLISH DICTIONARY

Kenneth Katzner

The *first* full-size English-Russian or Russian-English dictionary compiled and published in the U.S.; the *first* based on American, rather than British, English; the *first* full-size dictionary published anywhere containing Russian-English and English-Russian in one volume.

approx. 816 pp. (1-86763-2) July 1983 In Press

To Order for Free Examination, Circle Letter P on Order Card

## GENE EXPRESSION, 2nd Edition

### Volume 2: Eucaryotic Chromosomes

Edited by Benjamin Lewin

This is the first text that covers the revolution in the field of eucaryotic genes. It updates all the topics of the previous edition and introduces many new ones.

The book describes the environment of the genetic apparatus, dealing with the structure and division of the cell. It then discusses the structure of the genetic apparatus, based on the discovery of the nucleosome subunit of chromatin and extending to the ultrastructure of the chromosome.

1,160 pp. (1-01976-3) 1980 \$34.50 (paper)

To Order for Free Examination, Circle Letter Q on Order Card

## SOLAR ENGINEERING OF THERMAL PROCESSES

John A. Duffie & William A. Beckman

A thorough, up-to-date review of the principles of solar energy and the functioning, design, and economics of solar thermal processes. Presents quantitative methods for calculating solar process performance. Topics include convection and radiation, heat transfer principles, collectors and storage.

762 pp. (1-05066-0) 1980 \$32.50

To Order for Free Examination, Circle Letter R on Order Card

## LEAD AND LEAD POISONING IN ANTIQUITY

Jerome O. Nriagu

An integrated historical picture of the production, consumption and effects of lead in ancient times. Examines the lead resources available to antiquity and discusses lead's role in the material cultures of the various regions.

approx. 456 pp. (1-08767-X) April 1983 \$49.95

To Order for Free Examination, Circle Letter S on Order Card

## INDOOR AIR POLLUTION

### Characterization, Prediction, and Control

Richard A. Wadden & Peter A. Scheff

The *only* book on indoor pollution that reviews the problems and supplies the tools for the solution of them. Presents techniques that are applicable to any indoor space.

232 pp. (1-87673-9) 1982 \$39.95

To Order for Free Examination, Circle Letter T on Order Card

## BLACK HOLES, WHITE DWARFS AND NEUTRON STARS: THE PHYSICS OF COMPACT OBJECTS

Stuart L. Shapiro & Saul A. Teukolsky

approx. 656 pp. (1-87316-0) April 1983 \$24.95

To Order for Free Examination, Circle Letter U on Order Card

## PHYSICAL PROCESSES IN THE INTERSTELLAR MEDIUM

Lyman Spitzer Jr.

318 pp. (1-02232-2) 1978 \$31.95

To Order for Free Examination, Circle Letter V on Order Card

## ENCYCLOPEDIA OF STATISTICAL SCIENCES

Edited by Samuel Kotz & Norman L. Johnson

For all who deal with statistics, this eight-volume work will provide sound information and practical guidance, especially for those who may not be specialists in a particular topic. Its scope embraces agriculture, statistical mechanics, crystallography, zoology, and scores of other disciplines that use statistics. It will be published over four years—two volumes per year. The thousands of entries by eminent contributors will comprise some three million words. Volumes 1 and 2 published 1982. Volume 3 (F Distribution—Hypothesis Testing) and Volume 4 (icing the Tails—Lyapunov Inequality) due 1983.

Vol. 1 (1-05546-8) 480 pp. 1982 \$75.00\*

Vol. 2 (1-05547-6) 613 pp. 1982 \$75.00\*

Vol. 3 (1-05549-2) approx. 800 pp. May 1983 \$79.95\*

Vol. 4 (1-05551-4) approx. 800 pp. July 1983 \$79.95\*

\*15% subscription discount applicable to all volumes when "Subscription" is indicated on order.

Prospectus available on request. Write to J. Kazimir.

To Order for Free Examination, Circle Letters W, X, Y, and Z for Volumes 1, 2, 3 and 4, respectively, on Order Card

FOR BOOK ORDERS ONLY:

**CALL TOLL FREE (800) 526-5368**

In New Jersey call collect (201) 797-7809.

Order Code #3-1034

Order through your bookstore, use the attached order cards, or write to Nat Bodian Dept 3-1034

## WILEY-INTERSCIENCE

a division of John Wiley & Sons, Inc.

605 Third Avenue

New York, N.Y. 10158

In Canada: 22 Worcester Road, Rexdale, Ontario M9W 1L1

Prices subject to change without notice.



3-1034