

The Bowl of Night™

Handcrafted Three Dimensional Hemispheres For Viewing The Night Sky
The Bowl of Night™ ingeniously solves the ancient problem of accurately representing the night sky. All you do is match the time to the

date. The Bowl then duplicates the night sky above you. You can identify stars and constellations, or even chart the path of the planets.



TO: SPHERICAL CONCEPTS, INC.



(215) 783-0272

City	State	Zip
Address		
Name		
VISA card # MASTERCARD		exp. date
I am not completely s (30) days and receiv	atisfied I may return my E e a complete refund. En s three dollars (\$3.00) for	GOWL(s) OF NIGHT within thirty closed you will find my check for shipping and handling or bill my
Please send me	BOWL(s) OF NIGI	HT™ with instruction pamphlet(s) If
941 Parkview King of Pruss		Bowl of Night"-\$6500ea.

Use this easy way to shop for books that matter

A FIELD GUIDE TO MUSHROOMS AND THEIR RELATIVES—Booth Courtenay and Harold F. Burdsall, Jr. Now you can identify the 350 most frequently found species of mushrooms and related fungi. This handy all-color field guide describes mushroom from such groups as rusts, puffballs, jelly fungi, toothed fungi, thelephores, and club fungi. Individual species are defined by size, spore color, edibility, and other trait categories. 176 pp., 6 x 9, over 400 color photographs, 525 black-and-white illustrations, \$18.95

To order, circle "A" on Reader Service

Card

THE MATHEMATICS LIBRARY FOR THE PRACTICAL WORKER, 4th Edition — J.E. Thompson. Five-volume set. This instructive series of math books helps you master the simpler techniques of mathematical science quickly and easily. Ranging from the basic principles of arithmetic to differential calculus, it arms you with step-by-step explanations of some of the more common and directly useful branches of mathematics. \$29.95 for the set.

ALGEBRA FOR THE PRACTICAL **WORKER** 275 pp., 6 x 9

TRIGONOMETRY FOR THE PRACTICAL WORKER 275 pp., 6 x 9

ARITHMETIC FOR THE PRACTICAL **WORKER** 265 pp., 6 x 9

GEOMETRY FOR THE PRACTICAL **WORKER** 259 pp., 6 x 9

CALCULUS FOR THE PRACTICAL **WORKER** 279 pp., 6 x 9

To order, circle "B" on Reader Service

OBSERVATORIES OF THE WORLD-Siegfried Marx and Werner Pfau. Paints a fascinating picture of how 40 of the world's top observatories continue to be preeminent in space research. Fully covered are different methods of observation and instruments used, as well as the different branches of astronomy. You'll get a close look at the workings of such prestigious establishments as the Harvard Smithsonian Center for Astrophysics. 200 pp., $7\% \times 9$, illus., \$16.95 To order, circle "D" on Reader Service

Card

PASSIVE SOLAR RETROFIT: How to Add Natural Heating and Cooling to Your Home — Darryl J. Strickler. Reap the money-saving benefits of a home powered by solar energy—right from the home you live in now! This fully illustrated, do-it-yourself guide will enable you to complete a passive solar retrofit, at the least possible cost. You'll find proven energy-saving solutions to suit every climate, architectural style, and family budget.

176 pp., 8½ x 11, illus., \$18.95 To order, circle "E" on Reader Service

EXECUTIVE GUIDE TO FITNESS —

Brian Budd and Val Clery. Here's a total fitness program that answers the special needs of busy, stress-riddled executives, Brian Budd, acclaimed three times as the fittest all-round athlete in the world, shows you the way to more youthful muscle tone, a lower heart rate, greater lung capacity, and increased energy to devote to whatever challenges arise. 224 pp., $7\% \times 9\%$, illus., \$16.95 To order, circle "F" on Reader Service

15-DAY FREE EXAMINATION

Circle appropriate letters on Reader Service Card to receive your 15-day FREE examination copies of any books on these two pages. At the end of that time, if you are satisfied, send your remittance (including postage, handling, and sales tax.) Otherwise, return the books and owe nothing. (Offer good in U.S.A. only and subject to credit department approval. Payment must accompany orders with P.O. Box addresses. Prices subject to change.)

All Books Published By



Van Nostrand Reinhold



THE GIANT PANDA — The Institute of Zoology of the Chinese Academy of Sciences and Beijing Zoo, People's Republic of China. A bounty of photographs — over 150 in stunning color — along with vivid captions illustrate the ecology, growth, and survival activities of the giant panda. Recounts panda feeding and reproduction activities, the growth of cubs and how they are cared for, and much more. The photos are among the few available of the panda in its own habitat.

180 pp., illus., 9 x 12, \$29.95 To order, circle "G" on Reader Service Card.

EARTH SHELTERED HOUSING DE-

SIGN — The Underground Space Center, University of Minnesota. Path-breaking volume fully explains underground housing design. It offers plans for extremely attractive yet economical homes that utilize soil insulation, passive solar heating, and specific natural surroundings. — "Comprehensive" — AIA surroungings. — "Comprehensive" — AIA Journal. 317 pp., illus., 10¾ x 8½, \$19.95
To order, circle "H" on Reader Service

CRAFT PILOTING AND

COASTAL NAVIGATION—Al Saunders. Whether you're a novice or an experienced mariner, you'll find here valuable information on powering a small launch through island waters or sailing a yacht along the ocean coast. Covers basic equipment, rules of waterway traffic, how to use charts and a compass, and more. 272 pp., 7% x 91/4, illus., \$19.95

To order, circle "1" on Reader Service

BUYER'S HANDBOOK FOR COOPERATIVES AND CONDOMINIUMS Second Edition — Steven James Lee. Get expert advice on exactly how to select and purchase the right coop or condo for you. Steven James Lee shows you how to locate prospects, compare lenders, read and understand legal documents, and negotiate the purchase. He also helps you understand the latest tax benefits. 323 pp., 6% x 10, illus., \$19.95 To order, circle "J" on Reader Service

ELECTRONIKITS —Created by Brandon Electro/Technology, Compiled by James Barbarello. VNR's new Electronikit series features four kits for building practical and exciting electronic devices. You're given a rundown of all tools needed for the jobhow they work and how they can best be used—as well as a complete listing of all parts, their reference number in the particular Electronikit, the quantity needed, and a Radio Shack part number for easy ordering. Each kit: 24 pp., over 35 illus., 8½ x 11, integrated circuit, and printed circuit board

MULTI-EFFECT SOUND SYNTHE-SIZER — A simple-to-assemble synthesizer that can be used with a hi-fi or stereo system to produce thousands of exotic sounds and rhythms. \$10.95

To order, circle "K" on Reader Service

THE PERFORMER FM WIRELESS MI-**CROPHONE** — Easy-to-follow guidelines turn a battery and inexpensive parts into a handy device that enables you to be a recording star in your own home. \$10.95
To order, circle "L" on Reader Service

ELECTRONIC BUTLER CLAP-ACTI-VATED SWITCH — Remarkable switch that can control up to four lights or appliances by a clap of the hands. Quick and easy to assemble. \$10.95

To order, circle "M" on Reader Service

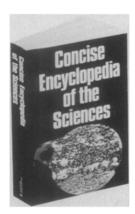
DOORKNOB SENTRY PORTABLE DOORKNOB SECURITY ALARM

You'll have extra security and more privacy after installing this new electronic door alarm. Clear instructions and illustrations guide you through every stage of assembly. \$10.95
To order, circle "N" on Reader Service

Card.

THE VIDEO MANUAL—David Cheshire. Packed with know-how about the wide range of video equipment now on the market. Numerous diagrams and photos explain everything from videodiscs to Philips IMCA Laser Vision...the similarities and differences between the Video Home System (VHS) and the Sony Betamax...and much more! 224 pp.,

5½ x 8, illus., \$16.95 To order, circle "O" on Reader Service



CONCISE ENCYCLOPEDIA OF THE SCIENCES — John-David Yule. Explores over 5,000 subjects including geology, geophysics, mathematics, medicine, biochemistry, physics, psychology, anthropology, astronomy, and more. Five hundred color photographs and diagrams illustrate the inner workings of familiar machines and practical applications to scientific theory. You'll find special visual-history panels that review the development of key sciences, plus over 1,000 capsule biographies of such figures as Einstein, Galileo, Pasteur, Freud, and many modern Nobel prize winners. 590 pp., 61/4 x 91/2, illus., \$17.95 paper

To order, circle "P" on Reader Service

THE COMPLEAT CRUCIVERBALIST: How to Solve and Compose Crossword Puzzles for Fun and Profit—Stan Kurzban and Mel Rossen. Helps you solve the toughest crossword puzzles with proven tips on how to see through disguised definitions, exploit knowledge of the puzzle's theme, and over-come an impasse. You'll even find strategies for creating and selling your own crossword puzzles. Tips are offered on how to conquer virtually every kind of word maze — conventional Ámerican, British cryptic, diagramless, humorous, and acrostic. Effective marketing strategies are included along with submission rules for each category of puzzle and names and addresses of crossword puzzle publishers. 167 pp., illus., 6 x 9, \$9.95

To order, circle "Q" on Reader Service

THE WEEKEND ATHLETE'S FITNESS GUIDE - Peter Verney. If you're a weekend athlete, you need this one-of-a-kind guide. Its easy-to-follow advice for tennis players, joggers, golfers, softball players, weightlifters, and all other amateur athletes shows how to avoid aches and pains while improving performance. You'll find helpful tips on warmup, diet, conditioning for specific activities, and prevention and treatment of typical ailments. 256 pp., 6½ x 9¼, illus., \$7.95

To order, circle "R" on Reader Service

MINERALS OF CALIFORNIA—H. Earl Pemberton. Answers numerous scientific, historic, and economic questions about minerals in California. This bounty of information on deposits and occurrences of 736 terrestrial minerals species not only examines findings from deposits statewide but also offers extensive data on meteorites. Detailed maps, photographs, and crystal drawings help you zero in on specific minerals. 672 pp., 7 x 10, illus., \$29.95

To order, circle "S" on Reader Service

THE COMPLETE BOOK OF CHI-SANBOP: Original Finger Calculation Method—Hang Young Pai. Chisanbop literally converts your fingers into a calculator that performs with extraordinary speed and accuracy. You'll find out the latest methods developed by Hang Young Pai for learning and teaching this revolutionary system for all four mathematical operations — addition, multiplication, subtraction, and division. Includes hundreds of diagrams that demonstrate all finger manipulations, plus sample problems. 340 pp., illus., $7\% \times 9\%$, \$17.95

To order, circle "T" on Reader Service

MATHEMATICAL AND LOGICAL PARADOXES AND FALLACIES Bryan Bunch. Skillfully examines the formulations of mankind's most daring and brilliant

one-to-one correspondence, completed infinites, the notions of limit and continuity, and more. Also analyzes methods of understanding the real world by experiment, utilizing algebra, and understanding chance. Helps you solve tough, mathematical problems. 208 pp., illus., 6 x 9, \$16.95

To order, circle "U" on Reader Service

A PICTORIAL GUIDE TO FOSSILS -

Gerard Ramon Case. From extinct to extant life forms, this visually-oriented handbook offers a total of 1,500 illustrations of virtually every type of fossil flora and fauna - from one-celled organisms to the highest order of mammals. Absorbing historical accounts and tips on collecting fossils are included. 432 pp., 81/2 x 11, \$29.95

To order, circle "V" on Reader Service

EVERYTHING YOU CAN GET FROM THE GOVERNMENT FOR FREE - OR ALMOST FREE — Craig and Peter Norback. Includes contacts, addresses, and telephone numbers so that you can apply for a particular program from anywhere in the country. "This over-sized comprehensive directory of federal programs is a godsend."—
Booklist. 250 pp., illus., 11 x 14, \$8.95 paper To order, circle "W" on Reader Service



COMPLETE TREES OF NORTH AMERICA - Thomas S. Elias. Here are clear identifications of 900 North American trees, including all native trees north of Mexico and the common introduced trees. Over 2,000 illustrations. "Elias has put his vast amount of knowledge to good use." — Booklist. "Easyto-locate format" — Publisher's Weekly. 948 pp., illus., 51/4 x 81/2, \$19.95 To order, circle "X" on Reader Service

MYSTERIES OF THE UNIVERSE MYSTERIES OF THE UNIVERSE -

Nigel Henbest. Spans everything from the birth of the planets and cosmic catastrophes to galactic islands and quasars. Key areas of coverage include intriguing regularities in orbit, various theories of planet formation, and new research data on satellite systems. Also investigates the broad range of star types.

theories of life in space, pulsars, black holes, and more. 184 pp., illus., 8½ x 11½, \$24.95 To order, circle "Y" on Reader Service

THE FRIENDLY STARS Revised Edition - Martha Evans Martin. Revised by Don Rice and Dr. Craig Foltz. The classic introductory guide to stars and constellations that fully conveys all the wonder and mystery of the universe. This edition brings you new information about the stars — including recently discovered ones — without sacrificing the charm of the original book. Fully covered are prominent stars, star types, stellar light, identification techniques, and terminology. 160 pp., 5½ x 81/2, illus. \$7.95

To order, circle "Z" on Reader Service Card

SCIENTIFIC ILLUSTRATION: A Guide to Biological, Zoological, and Medical Rendering Techniques, Design, Printing, and Display — Phyllis Wood. Step-by-step rendering techniques that help you present scientific material in a creative, accurate manner. Emphasis is made on the final form in which the art will be used-whether it be for print, projection, or display. "A spring of excitement and stimulation." — Bioscience. 144 pp., 8½ x 11, illus., \$9.95

To order, circle "AA" on Reader Service

Card

THE \$50 AND UP UNDERGROUND HOUSE BOOK — Mike Oehler. Offers entertaining guidance for building a most livable and in-tune-with-nature home! You'll find out how to design an efficient underground home, drastically cut material costs, incorporate greenhouses, use solar energy, and more. "Author should be given an award for proving that an energy efficient house is only as expensive as you want it to be." — Workbench 115 pp., 8½ x 10, illus., \$3.95 paper
To order, circle "BB" on Reader Ser-

To order any of these books circle appropriate letter on Reader Service Card.

vice Card.

Take	the Challo	enge!
APPLE LOGO by H. Abelson. Clearly presents the Logo language as a virtually unlimited educational tool for users of Apple Logo™ software distributed by the Apple Computer Company. (000425-0) \$14.95	TRS-80 GRAPHICS FOR THE MODEL I AND MODEL III by D. Kater and S. Thomas. An easy-to-use, comprehensive approach to low-resolution computer graphics. (033303-3) \$12.95	8086/8088 16-BIT MICRO-PROCESSOR PRIMER by C. Morgan and M. Waite. A thorough examination of what is certain to be the standard microcomputer of the '80s — the 16-bit microprocessor! (043109-4) \$16.95
LOGO FOR THE APPLE II by H. Abelson. Now the expressive Logo language can be used with MIT Logo software for the Apple II computer, distributed by Krell Software and Terrapin, Inc. (000426-9) \$14.95	THE BRAINS OF MEN AND MA- CHINES by E. Kent. Explores the fascinating relationship be- tween the brain's chemical, elec- trical, and synaptic circuitry and robotic behavior and compu- ter design. (034123-0) \$20.95	by M. Waite and D. Fox. Presents the tools and techniques for creating exciting, original animated displays on a personal computer. (021742-4) \$18.95
BRAINS, BEHAVIOR, AND ROBOT-ICS by J. Albus. A far-reaching look at the computer-like organization of our brains and how robotic "brains" should emulate them. (000975-9) \$18.95	INVERSIONS: A Catalogue of Calligraphic Cartwheels by S. Kim. Discover the magic and illusion of inverted words — an irresistible challenge to everyone who loves beauty in mathematics and design. (034546-5) \$8.95	A basic guide to the fascinating uses of Logo — so clear a nine-year-old can understand it, yet useful for adults. (068570-3) \$14.95
BEGINNER'S GUIDE TO THE UCSD PASCAL SYSTEM by K. Bowles. An excellent introduction to this general purpose software package for users of microcomputers and minicomputers. (006745-7) \$11.95	THE BYTE BOOK OF PASCAL by B. Liffick. An important collection of articles, language forums, and letters from <i>BYTE</i> magazine on the Pascal programming language. (037823-1) \$27.50	DIGITAL HARMONY: On the Complementarity of Music and Visual Art by J. Whitney. Explores the dynamic and innovative merger of computer music and color graphics. (070015-X) \$23.95
CIARCIA'S CIRCUIT CELLAR VOL. I by S. Ciarcia. Anecdotes introduce articles detailing numerous projects for the beginning microcomputer user. (010960-5) \$8.00	THREADED INTERPRETIVE LAN- GUAGES by R. Loeliger. Develops an interactive, easy-to-use threaded language with specific routines for the Zilog Z80 micro- processor. (038360-X) \$20.75	APPLE PASCAL: A Hands-On Approach by A. Luehrmann and H. Peckham. A step-by-step working guide to programming in Pascal that makes learning this powerful language as simple as A,B,C. (049171-2) \$18.95
CIARCIA'S CIRCUIT CELLAR VOL. II by S. Ciarcia. Useful and interesting information about personal computers and how to interface them into your home environment. (010963-X) \$14.75	THE BYTE BOOK OF COMPUTER MUSIC edited by C. Morgan. A wide-ranging look at the delights of digital music synthesis for the new generation of music enthusiasts. (043097-7) \$10.00	MICROPROCESSORS by P. Kimberly. Provides a wealth of information and over 1,000 terms about modern microelectronics and computer systems. (034548-1) \$6.95
CIARCIA'S CIRCUIT CELLAR VOL. III by S. Ciarcia. More of Ciarcia's easygoing, clear instructions for every computer user or electronics hobbyist interested in low-cost construction projects. (010965-6) \$12.95	Mail entire ad to: McGraw-Hill Book Company P.O. Box 400 Hightstown, NJ 08520	
by S. Ciarcia. Demonstrates how to build a working computer based on the Zilog Z80 microprocessor. (010962-1) \$17.95	At the end of that time, I will pay in fu handling, or return the book(s) postpa	necked for 15 days' FREE examination. Ill, plus local tax, postage, and aid with no further obligation.
MICROCOMPUTER STRUCTURES by H. D'Angelo. Thoroughly pre- pares students in the fundamen- tals of digital electronics, logic design, and computer architec- ture. (015294-2) \$20.95	Address/Apt. (No City/State/Zip Offer good only in U.S. Order sub I enclose full payment, plus local	
N	McGraw-Hill pays all regular pos Same refund privilege applies! Tail this ac	03-K246-4100-3