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AHA! AHA! INSIGHT — Martin Gardner — W H Freeman, 1978, 179 p., drawings, paper, \$6.50. A careful selection of problems that seem difficult if solved in the traditional way, but with simple, unexpected solutions to be arrived at by a sudden hunch or "aha! reaction." The purpose of these puzzles is to exercise your powers of creative thinking and improve your ability in this technique of problem solving. [1]

A BEGINNER'S GUIDE TO DESIGNING & BUILDING TRANSISTOR RADIOS: How to Design and Build Your Own Radios from Scratch — R. H. Warring — Tab Bks, 1978, 128 p., illus., \$7.95, paper, \$4.95. An illustrated guide for the amateur to learn how transistor radios work, to build them and to gain a working knowledge of practical circuit design. [2]

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BEYOND THE MOON — Paolo Maffei, translated by D. J. K. O'Connell — MIT Pr, 1978, 377 p., illus., \$12.50. This book is the story of a voyage in space that starts from the moon and continues as far as the greatest distances that can be reached by exploration or thought. It presents our present knowledge of the universe in a readable style for the intelligent layman. A translation of the sixth edition (1977) of *Al Di La 'Della Luna*. [3]

FIELD GEOLOGY IN COLOR — D. E. Bates and J. F. Kirkaldy — Arco, 1977, 215 p., color plates and drawings, \$7.95. To give guidance on the fieldwork that can be done with a minimum of equipment — hammer, handlens, notebook, pencil, map, compass/clinometer. [4]

THE FLYING CIRCUS OF PHYSICS: With Answers — Jearl Walker — Wiley, 1977, 295 p., drawings, paper, \$8.95. Physics problems from the everyday world, some easy, others enormously difficult, that scientists spend their lives trying to solve. A book intended to make you think about the physics around you. Answers are included, as is a bibliography keyed to the questions. [5]

GOD AND THE ASTRONOMERS — Robert Jastrow — Norton, 1978, 136 p., color and b&w photographs, \$7.95. Traces the history of the big bang theory of the origin of the universe and tells of the scientists and their work that produced the evidence that the universe exploded into being. Discusses the problems scientists have with this theory and suggests possible ways our universe may end. [6]

A HISTORY OF HERBAL PLANTS — Richard le Strange — Arco, 1977, 304 p., illustrated by Derek Cork, \$15. The introduction is a worldwide historical survey of herbs used through the ages, followed by an encyclopedia of 750 plants, giving history, locale, appearance and curative properties of each plant. Illustrated by beautiful line drawings. [7]

THE IRON SUN: Crossing the Universe Through Black Holes — Adrian Berry — Dutton, 1977, 176 p., drawings, \$7.95. An attempt to discover the feasibility of travel to the stars. [8]

THE KEY TO THE UNIVERSE: A Report on the New Physics — Nigel Calder — Penguin, 1978, 199 p., illus., paper, \$6.95. This well-illustrated book introduces the general reader to the new ideas in physics and to the scientists who have proposed the theories. Originally published in hardback in 1977. [9]

M. C. ESCHER KALEIDOCYCLES — Doris Schattschneider and Wallace Walker — Ballantine, 1977, 43 p. and 17 models, illus., paper, \$8.95. A text that traces the evolution of these geometric forms and covers the artist Escher's exploration of overall patterns in two and three dimensions, along with 17 Escher kaleidocycles to be assembled, studied and enjoyed. [10]

MEDICAL TESTS & YOU — Aaron E. Klein — G&D, 1977, 124 p., illus., paper, \$4.95. Designed to assist patients and their families in understanding the nature of diagnostic tests, how they are performed, what potential risks they carry and what benefits might accrue to the patient. [11]

PARTICLES: An Introduction to Particle Physics — Michael Chester — Macmillan, 1978, 154 p., illus., \$8.95. Our everyday world is built out of particles, such as protons, pions and quarks, things that are both particles and waves, things that might move backward and forward in time. A simply written book that tells how physicists through the years have developed their understanding of fundamental particles. [12]

POLYHEDRA PRIMER — Peter Pearce and Susan Pearce — Van Nos Reinhold, 1978, 134 p., drawings, paper, \$5.95. A visual attempt to facilitate the understanding of the principles embodied in polyhedra and to provide the reader with new ideas about the geometric organization of three-dimensional space. [13]

THE ROAD TO THE STARS — Iain Nicolson — Morrow, 1978, 224 p., color and b&w photographs and drawings, \$14.95. Maintains the view that interstellar travel will become technically feasible during the 21st century. Examines the basic principles of interstellar travel, progress to date, problems of flight and how these journeys may be accomplished. Discusses the reasons for interstellar travel and the likely effects on individuals and the human race. [14]

THE RUNAWAY UNIVERSE — Paul Davies — Harrow, 1978, 205 p., illus., \$10. More than just a description of developments in modern physics and astronomy, the book represents the author's attempt to show how all physical systems, from humans to a galaxy, share the common, and somewhat enigmatic, quality of organization. In the sections on the future of the universe the author goes beyond established science and gives a personal view of what he feels may be the impact of technology on the structure of the world around us. [15]

SCIENCE BRAIN-TWISTERS, PARADOXES, AND FALLACIES — Christopher P. Jargoeki — Scribner, 1978, 183 p., diagrams by Richard Liu, paper, \$3.95. Contains more than 160 puzzles based on scientific principles, dealing with such topics as space and time, mechanics, liquids and gases, heat, geophysics and space science. A detailed solution is given for each puzzle. Originally published in hardback in 1976. [16]

A SENSE OF THE FUTURE: Essays in Natural Philosophy — J. Bronowski — MIT Pr, 286 p., \$12.50, paper, \$4.95. The focus of this collection of lectures, essays and reviews, by a man of many talents and interests, is science as natural philosophy — its scope, nature, limitations, implications and responsibilities. [17]

SPACESHIPS OF THE MIND — Nigel Calder — Viking Pr, 1978, 144 p., illus., \$14.95. Explores the theme of "big ideas" in contemporary science — where they have led in the past and where they may lead in years to come. With special emphasis on space technology, the author introduces some of the innovative thinkers in the scientific community in a series of interviews and comments on their research. [18]

SPACE, TIME AND GRAVITY: The Theory of the Big Bang and Black Holes — Robert M. Wald — U of Chicago Pr, 1977, 131 p., diagrams, \$10.95. Present-day ideas of space, time, and gravitation. Explains how, in Einstein's theory of general relativity, gravitation is described in terms of the curved geometry of spacetime; examines the implication of these ideas on hypotheses about the universe's origin, evolution and large-scale structure; and also discusses gravitational collapse and black holes. [19]

SPACE-TIME TRANSIENTS AND UNUSUAL EVENTS — Michael A. Persinger and Gyslaine F. Lafrenière — Nelson-Hall, 1977, 269 p., diagrams, \$9.95, paper, \$5.95. Written by a psychologist and his research assistant, with the help of computer technology, this book is a study of unusual events. Its purpose is to encourage thinking about the limits of our concepts and the boundaries of man. [20]

WHAT IS THE WORLD MADE OF? Atoms, Leptons, Quarks, and Other Tantalizing Particles — Gerald Feinberg — Anchor Pr Doubleday, 1978, 290 p., illus., paper, \$3.95. Presents some of the important aspects of 20th century physics for those with little previous knowledge of physics and no mathematics beyond secondary school. Published in hardcover in 1977. [21]