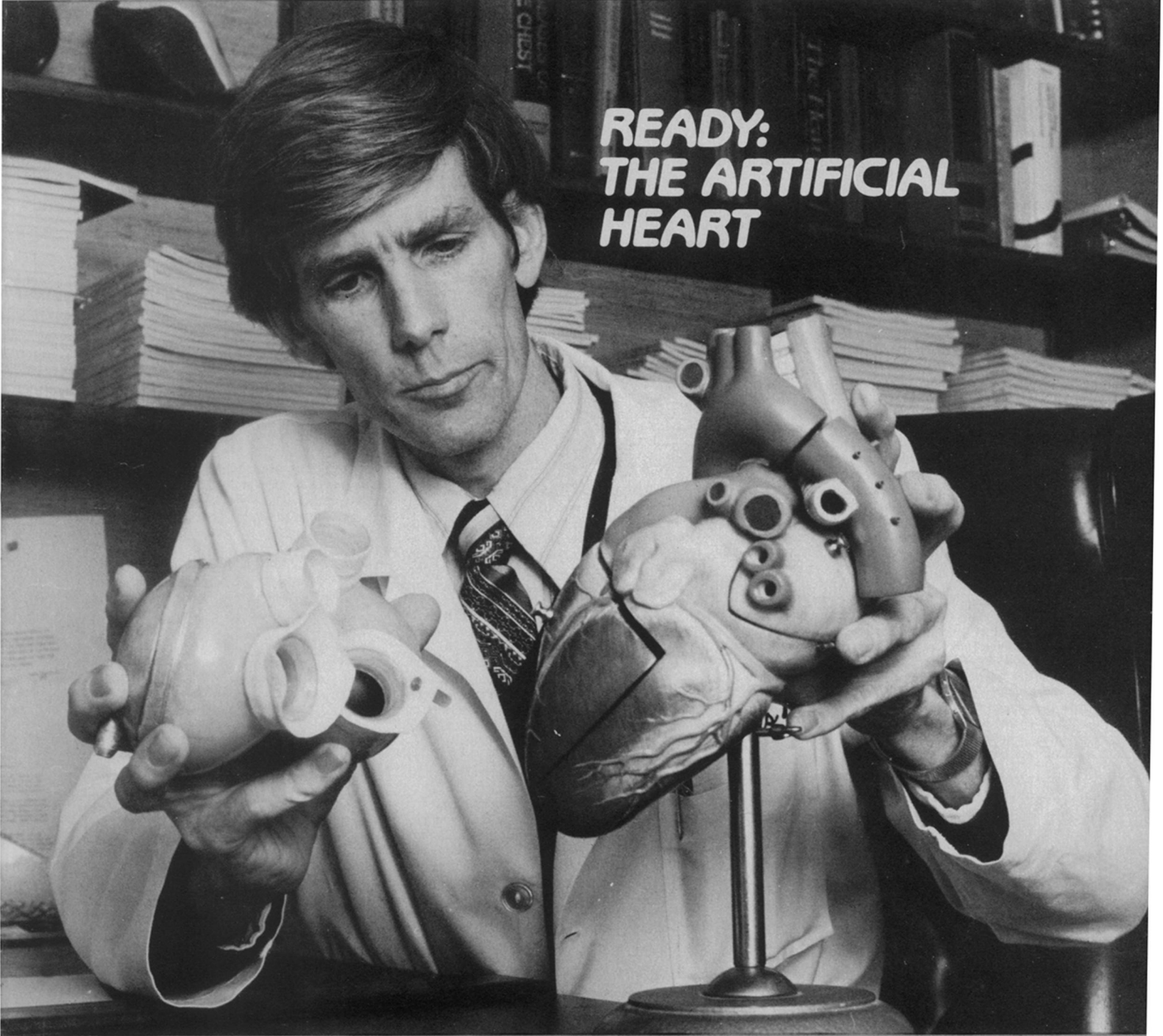


SCIENCE NEWS

MARCH 7, 1981
VOL. 119, NO. 10

**READY:
THE ARTIFICIAL
HEART**



BOOKS FOR SOLUTIONS

ALL ENDS UP — S. Harris, foreword by Linus Pauling. A third collection of science cartoons from the *American Scientist* by this delightful cartoonist. W Kaufmann, 1980, 122 p., illus., paper, \$5.95. [1]

THE BEGINNER'S HANDBOOK OF ELECTRONICS — George H. Olsen, revised by Forrest M. Mims, III. Written for the layman who wishes to gain an understanding of the principles of electronics. Assumes no more prior knowledge than that of elementary electricity and seeks to avoid mathematics. Discusses such topics as resistors, transistors, semiconductors, integrated circuits, television and digital circuits. P-H, 1980, 305 p., illus., \$17.95, paper, \$6.95. [2]

COMPARISONS: Of Distance, Size, Area, Volume, Mass, Weight, Density, Energy, Temperature, Time, Speed and Number throughout the Universe — The Diagram Group. A visual guide to measurement — how man measured in the past and the many systems of measurement used today. Drawings, diagrams and charts are used to point up the comparisons. Tells not only the extremes of the biological and physical world but also compares such things as the speed of wind to the speed of a car to a person walking. St Martin, 1980, 240 p., illus., \$15. [3]

CONSUMING PASSIONS: The Anthropology of Eating — Peter Farb and George Armelagos. Eating, say the authors, is inseparable from the behavior and the biology of the human species and from the adaptation that humans have made to the conditions of their existence on this planet. Cultural traits, social institutions, national histories and individual attitudes cannot be entirely understood without an understanding also of how these have meshed with our varied and peculiar modes of eating. HM, 1980, 279 p., \$12.95. [4]

COSMOS — Carl Sagan. "Science has found out not only that the universe has a reeling and ecstatic grandeur, not only that it is accessible to human understanding but also that we are, in a very real and profound sense, a part of the Cosmos, born from it, our fate deeply connected with it." This book explores that cosmic perspective. The "Cosmos" television series and this book, which evolved together, are an experiment in communicating some of the ideas, methods and joys of science. Random, 1980, 365 p., color/b&w illus., \$19.95. [5]

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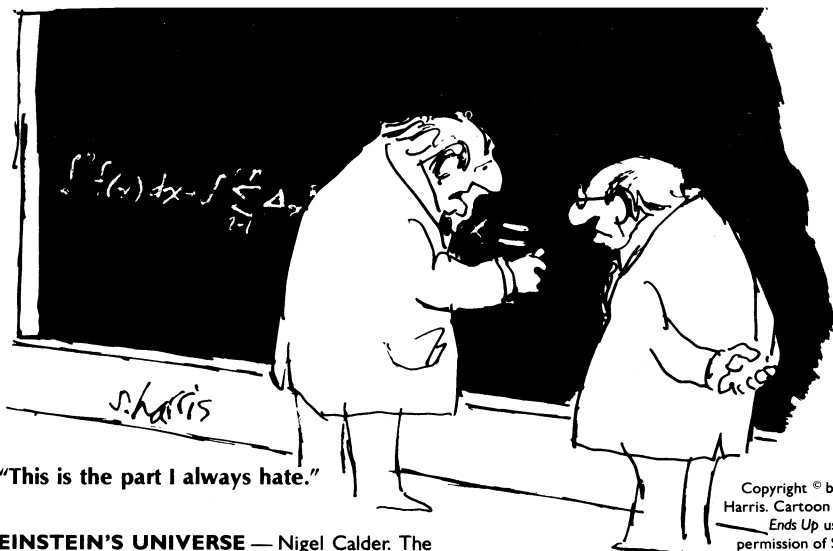
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"This is the part I always hate."

Copyright © by Sidney Harris. Cartoon from *All Ends Up* used with permission of S. Harris

EINSTEIN'S UNIVERSE — Nigel Calder. The author, who also wrote the script for the television special celebrating the Einstein centenary, wished "to make relativity plain." Einstein's ideas of time, space and motion are presented for the general reader. Many of the explanations of Einstein's work are viewed in light of the latest research demonstrating how present-day discoveries affirm his vision. Originally published in hardback in 1979. Penguin, 1980, 254 p., illus., paper, \$2.95. [6]

ENTROPY: A New World View — Jeremy Rifkin with Ted Howard, afterword by Nicholas Georgescu-Roegen. Rifkin, a director of People's Business Commission, defines and discusses entropy for the general reader and tells how it applies to nuclear and solar energy, urban decay, military activity, education, health, economics and politics. The author then looks to the entropy law for an understanding of where we have made mistakes in the past and where we should head in the future. Viking Pr, 1980, 305 p., \$11.95. [7]

FROM ATOMS TO QUARKS: An Introduction to the Strange World of Particle Physics — James S. Trefil. Uses nontechnical language and takes the general reader through the sequence of discoveries that led from the atom to the nucleus to the elementary particle and, finally, to the quark. Scribner, 1980, 225 p., illus., \$12.95. [8]

THE HEALTHY HYPOCHONDRIAC: Recognizing, Understanding, and Living with Anxieties about our Health — Richard Ehrlich. Divides hypochondriacs according to the way they express their worries about their health and explains how children learn the responses and attitudes that tend to make them hypochondriacal as adults. Also discusses hypochondria as to the role it plays in different people's lives and society, together with a brief word on self-help. Saunders Pr (HR&W), 1980, 211 p., \$11.95, paper, \$6.95. [9]

THE HERPES BOOK — Richard Hamilton. The herpes virus is one of the most prevalent viral diseases. To most infected people it brings discomfort in the form of blisterlike sores. Herpes does not respond to any currently known form of therapy; once a person is infected, the virus remains for life. This book provides basic information about herpes, tells how to cope with the virus and how to prevent or minimize its possible complications. JP Tarcher (HM), 1980, 206 p., \$9.95. [10]

AN INTRODUCTION TO DATA ANALYSIS — Bruce D. Bowen and Herbert F. Weisberg. Intended to explain the general principles of data analysis so that the reader will be able to read reports based on the analysis of data and know how to analyze data. W H Freeman, 1980, 213 p., charts & graphs, \$15.95, paper, \$7.95. [11]

LIFE-SPANS: Or How Long Things Last — Frank Kendig and Richard Hutton. A fascinating book about the human lifespan, the lifespan of animals, celestial bodies and geologic formations — where our concepts of time must expand. The lifespans of food and beverages are discussed together with the manufactured products of man. Where possible, tips as to how lifespans might be extended are included. HR&V, 1980, 265 p., \$12.95, paper, \$5.95. [12]

LIGHT AND ITS USES: Making and Using Lasers, Holograms, Interferometers, and Instruments of Dispersion — Introductions by Jearl Walker. These articles from The Amateur Scientist department of *Scientific American* are, according to the preface, the perfect introduction to science for tinkerers. Step-by-step instructions are given for these projects in optics. WH Freeman, 1980, 147 p., illus., \$17.95, paper, \$8.95. [13]

MATHEMATICS: The Loss of Certainty — Morris Kline. Explains in nonmathematical language the drastic changes that have taken place in the understanding of pure and applied mathematics and discusses the implications of these changes for science and human reason. Oxford U Pr, 1980, 366 p., \$19.95. [14]

PERPETUAL MOTION: The History of an Obsession — Arthur W.J.G. Ord-Hume. The perpetual motion seeker was, in most cases, a dedicated scientist fettered not by ignorance, but by the limitations of scientific and mechanical knowledge of his time. Originally published in hardback in 1977. St Martin, 1980, 235 p., illus., paper, \$5.95. [15]

SOCIOBIOLOGY: The Abridged Edition — Edward O. Wilson. In this shortened version of the original work on sociobiology, intended to serve the general reader and the student, the text has been trimmed to its essential introductory parts and the most interesting case histories while the basic structure of the original book has been retained. Because of the unusual amount of interest and commentary, the chapter on human social behavior has been left virtually intact. Harvard U Pr, 1980, 366 p., illus., \$18.50, paper, \$9.95. [16]

TOWARD THE CONQUEST OF CANCER — Edward J. Beattie, Jr, with Stuart D. Cowan. Up-to-date information by the chief medical officer of the Memorial Sloan-Kettering Cancer Center about the prevention and treatment of cancer. Written for the general public to "demystify cancer," to show how as many as 40 to 50 percent of cancers can be prevented, to demonstrate that when detected early and treated properly about 50 percent of all cancers can be cured and to tell how to obtain the best medical care for a cancer patient. Crown, 1980, 278 p., \$12.95. [17]

THE UNDERGROUND HOUSE BOOK — Stu Campbell. Underground homes offer remarkable energy savings, minimal maintenance and revolutionary possibilities for siting. This book is a blend of theory with technical material, including drawings, tables and floor plans, as well as first hand experiences of underground home architects, builders and dwellers. Garden Way Pub, 1980, 210 p., illus., paper, \$9.95. [18]

THE WAY IT WORKS: Man and his Machines — Robin Kerrod. A beautifully illustrated guide to the technology of the 20th century. Explains and illustrates how modern machines operate. Octopus (Mayflower Bks), 1980, 224 p., color illus., \$16.95, paper, \$9.95. [19]