

The Weekly Newsmagazine of Science

# SCIENCE NEWS

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Pages 1-16

Waiting for an  
**Earthquake**

# THE SURGERY BOOK

An Illustrated Guide to 73 of the Most Common Operations

Including  
• Hernia repair  
• Mastectomy  
• Cosmetic surgery  
• Vasectomy  
• Prostatectomy



• Hysterectomy  
• Hip replacement  
• Cataract repair  
• Biopsies  
• Cesarean section  
• Disk repair  
• Heart bypass

What the surgeon does and why



Robert M. Youngson, M.D.,  
with The Diagram Group

Nothing is more daunting than the prospect of surgery. Whether the patient is yourself or a loved one, you are bound to have many questions about the operation the doctor has recommended—concerns that even the most attentive and thorough doctor might be too busy to address completely.

*The Surgery Book* is a dependable, comprehensive sourcebook that answers these important medical questions. Designed for the layperson, the book explains the 73 most common surgical operations, delivering the information that every well-informed patient needs to know in a clear, easy-to-understand format. For each operation, it answers these crucial questions:

- Why is the operation necessary?
- What does the surgeon hope to accomplish?
- How is the operation performed?
- How long will recovery take, and will there be pain or other side effects?

Now available  
in paperback!

The book also explains what every patient should know about each of the most common diagnostic and surgical tests. It covers blood transfusion, tissue and organ transplantation, and bone marrow transplants, in addition to giving readers a thorough introduction to operating-room procedures, staff, and equipment.

Written by a leading surgeon and thoroughly illustrated with more than 350 step-by-step drawings, *The Surgery Book* allays patients' fears and anxieties and helps them become fully informed about their upcoming experience in the operating room.

— from St. Martin's Griffin

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A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

Many children begin reading with an alphabet book. Comfortably seated on a warm lap, youngsters listen as the alphabet unwinds from "A is for alligator" to "Z is for zebra." Such books may not be great literature, but they provide an effective introduction to letters, words, and language.

Echoing those alphabet readers of childhood, this volume surveys the discipline of mathematics in a series of essays running from A to Z. The content is considerably more sophisticated—D now stands for differential calculus rather than doggie—and a warm lap is no longer mandatory, but the basic idea of an alphabetical journey remains.

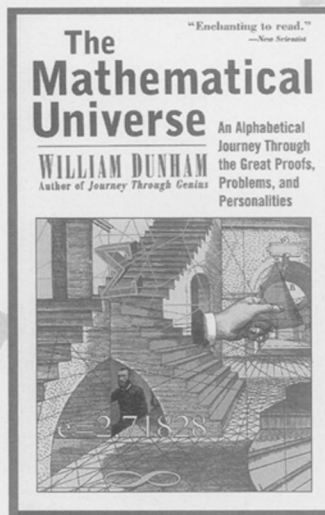
The book begins with the (apparently) simple subject of arithmetic. Later chapters have recurring and often interlaced themes. Sometimes consecutive chapters fit together, as with chapters G, H, and I, on all facets of geometry. Some chapters describe specific results, such as the isoperimetric problem or Archimedes' determination of the surface area of a sphere.

In most chapters, there has been a deliberate attempt to avoid overtly technical language. Virtually all of the mathematics is elementary—that is, pitched to those with some high school algebra and geometry under their belts.

—from the Preface

"If you want to encourage anyone's interest in math, get them *The Mathematical Universe*...it is enchanting to read."

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A B C D E F G H

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From the acclaimed author of *Coming of Age in the Milky Way* comes this delightfully engrossing report on how science today envisions the universe as a whole.

Timothy Ferris begins with a succinct account of how we have come to know what we know about the universe. Then he explains the meaning behind the exciting new developments that have put cosmology in the headlines—including the discovery of planets orbiting stars other than our sun, glimpses through the Hubble Space Telescope of how the universe looked when it was only a fraction of its present age, and the detection of structure in relic radiation from the Big Bang that may hint at the mechanisms of genesis.

Ferris provides a lucid, nontechnical overview of current research and a forecast of where cosmological theory is likely to go in the 21st century. A master analogist, he presents accessible explanations of relativity and quantum physics, "inflationary" models indicating that the universe is much larger than had been thought, and "string" theories, which portray all matter as made of space.

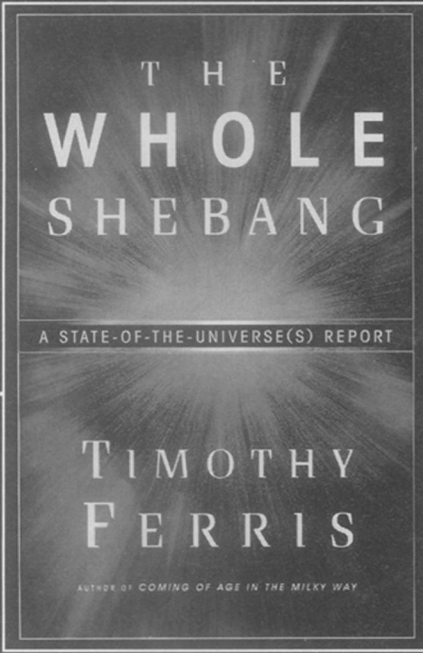
The centerpiece of *The Whole Shebang* is a visionary account of near-future science, which sheds light on the possibility that our universe is one among many universes, each with different physical laws and differing prospects for the emergence of life. —from Simon & Schuster

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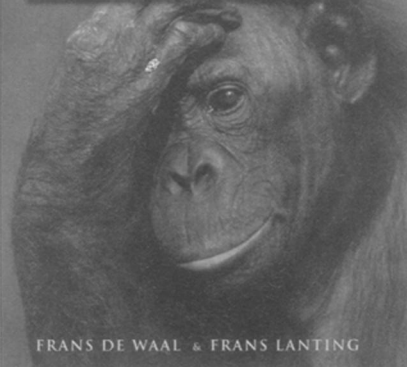
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## BONOBO

THE FORGOTTEN APE



FRANS DE WAAL & FRANS LANTING

Most people have never heard of the bonobo, despite the fact that bonobos are as close to us on the evolutionary tree as chimpanzees are. Whereas chimpanzees are known for male power politics, cooperative hunting, and intergroup warfare, bonobo society is egalitarian and peaceful. Bonobos form a gentle matriarchy, offering a provocative alternative to the male-based model of human evolution that emphasizes man the hunter and tool maker.

In fact, specialists think of the bonobo as the "make-love-not-war" primate, because bonobos use an astonishing range of erotic encounters to resolve tensions. Bonobos shed exciting new

light on the role of sex in human society and overthrow established theories of the biological inevitability of human aggression and the drive for power.

Now, two renowned experts in their fields, primatologist Frans de Waal and wildlife photographer Frans Lanting, collaborate on the first extended profile of the bonobo written for the general reader. It presents the most up-to-date information on the species, including comparative data from zoo populations and from the field and interviews with leading bonobo experts. Eight superb full-color photo essays give rare views of bonobos both in their native habitat in the remote rain forests of Zaire and in the few zoos with captive populations.

—from University of California Press

