

"A brilliant and highly readable tour through the Universe . . . It will spark hot debate among scientists and grasp the reader from start to finish."
 — F. David Peat, author of *Synchronicity*

In this intriguing exploration of our relationship with the universe eminent physicist Martin Rees and acclaimed science writer John Gribbin search for the grand design of the universe — and the meaning of the so-called coincidences that allow life to exist on our planet. Rees and Gribbin present the latest advances in understanding the nature of dark matter (which controls the dynamics, structure and eventual fate of the universe), explore mini and massive black holes, brown dwarfs and novel forms of matter such as quarks and quark nuggets. Along the way they fascinate us with what scientists have already discovered about cosmic strings, superstrings and the elusive TOE (theory of everything). They also speculate on the possibility of the existence of other universes and of other intelligent life in our own. *Cosmic Coincidences'* investigation sheds new light on the monumental questions of why our universe is the way it is and why we are here.
 — from the publisher

Bantam, 1990,
 302 pages,
 5" x 8 1/4",
 paperback,
 \$9.95

Science News Books 1719 N Street, NW
 Washington, DC 20036

CosmicCoinci

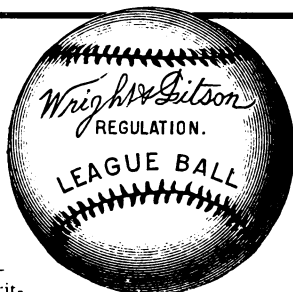
Please send _____ copy(ies) of *Cosmic Coincidences*. I include a check payable to Science News Books for \$9.95 plus \$2.00 postage and handling (total \$11.95) for each copy. Domestic orders only.

Name _____
 Address _____
 City _____
 State _____ Zip _____
 Daytime Phone # (_____) _____
 (used only for problems with order)

RB1226

The Physics of Baseball

By Robert K. Adair



At the suggestion of his long-time friend, the late Baseball Commissioner A. Bartlett Giamatti, Robert Kemp Adair has written an intriguing analysis of how and why a baseball does what it does when thrown or batted. The idea for the book originated when Adair — The Sterling Professor of Physics at Yale University and a lifelong baseball buff — was asked by then National League President Bart Giamatti to report on certain scientific aspects of the game. He was then light-heartedly presented with the title "Physicist to the National League." Adair was later encouraged to expand on these findings in the form of a book, describing quantitatively as much of the action of baseball as possible. By constructing plausible models of many of the interactions that play a part in baseball, Adair has studied the flight of the ball, the structure of bats and the character of the collision of balls and bats. With the use of 30 diagrams and an easy-to-read scientific text that includes references to familiar players, ball fields, and techniques used in the game today, Adair's studies have yielded such facts as:

- ◆ To hit a ball for maximum distance, the trajectory off the bat should have a 35-degree angle
- ◆ "Cool Papa" Bell is said to have circled the bases in less than 13 seconds — barely 1 second slower than Carl Lewis could run that distance if it were straightened out.
- ◆ An average head wind (10 miles per hour) can turn a 400-foot home run into a 370-foot out
- ◆ A 400-foot home run will go about 6 feet farther for every inch reduction on the barometer
- ◆ A curve ball that seems to break over 14 inches never actually deviates from a straight line by more than 3 1/2 inches

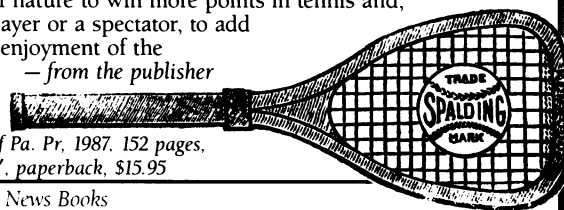
— from the publisher

Harper & Row, 1990. 110 pages, 8" x 5", paperback, \$7.95

Tennis Science for Tennis Players

By Howard Brody

Through extensive laboratory testing and computer modeling, Brody has investigated the physics behind the shape of the tennis racket, the string pattern, the bounce of the tennis ball, the ways in which a particular court surface can determine the speed of the game and the many other factors that contribute to the game. This tennis-playing physicist tells how to take advantage of the laws of nature to win more points in tennis and, as a player or a spectator, to add to the enjoyment of the game.
 — from the publisher



Univ. of Pa. Pr, 1987. 152 pages,
 6" x 9", paperback, \$15.95

Science News Books
 1719 N St., NW, Washington, DC 20036

Please send the following books.

___ PhysBaseball, \$7.95 ___ TennisSci, \$15.95 ___ Both, \$21.95

I include a check payable to Science News Books plus \$2.00 postage and handling for each item. Maximum \$4.00. Domestic orders only.

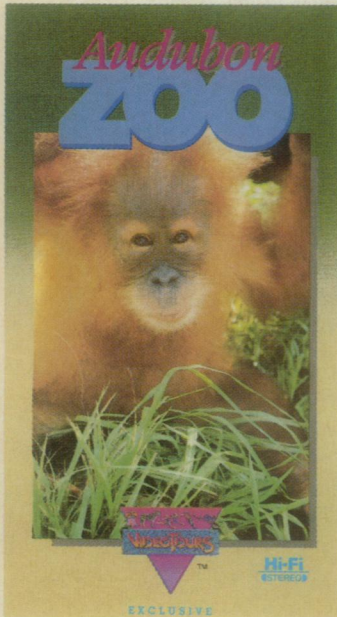
Name _____
 Address _____
 City _____
 State _____ Zip _____
 Daytime Phone # (_____) _____
 (used only for problems with order)

RB1225

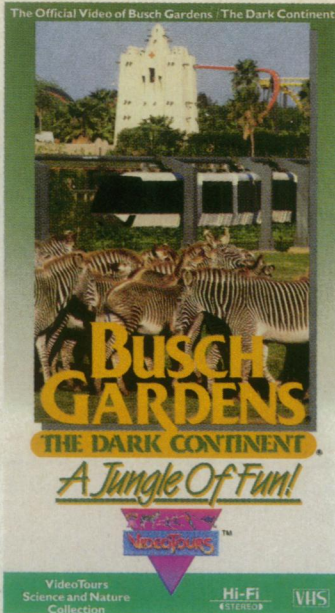
*Award
Winning*

Nature/Travel Videos

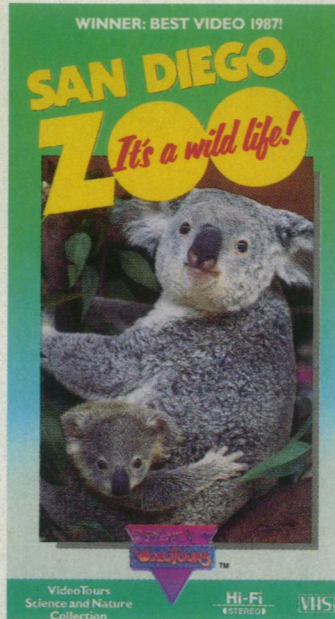
by VideoTours



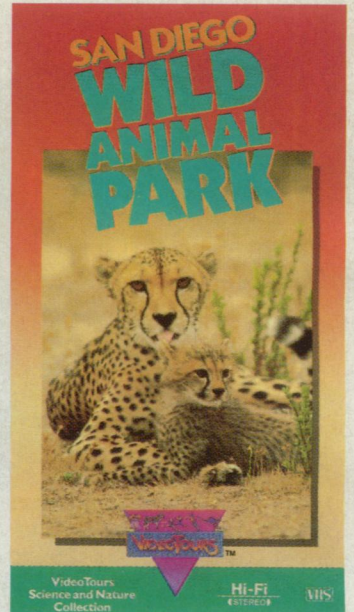
The Audubon Zoo in New Orleans Technology combines with nature, as we examine the workings of this state-of-the-art urban zoo. Explore the environs of the only zoological park in the world that features a full-size swamp! Find out what it takes to keep a growing animal population — including alligators, horned rhinos and Chinese pangolins — happy and healthy *and* how to deal with the one million tourists that pass through the gates each year.



Busch Gardens, Tampa, Florida *A Jungle Of Fun!* Take an early morning "safari" onto the Serengeti Plain to feed 500 free-roaming African big game. Visit an animal nursery. There's more to Busch Gardens than just dazzling stage shows and exciting roller coaster rides. "Jungle of Fun" captures all the spirit and drama of this modern theme park and zoo.
Winner: Gold Medal, International Film & TV Festival

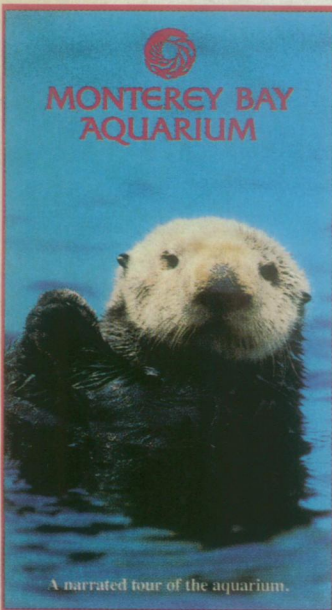


The San Diego Zoo *It's A Wild Life!* Spend a fun-filled day at the San Diego Zoo, in a behind the scenes look at the day to day activity of one of the world's finest zoological institutions. From apes to zebras, the San Diego Zoo has it all. *It's A Wild Life* is a delight for people of all ages.
Winner: Best Video 1987 from Billboard Magazine & American Film Institute



The San Diego Wild Animal Park Come along on an excursion through one of the most beautiful outdoor animal care environments in the world. Colorful animals abound as we hear the heart-rending story of the Park's difficult mission — a valiant race against time in the struggle to save rare and endangered species from extinction.
Winner: Silver Cindy Award 1989 from Association of Visual Communicators

Learning and entertainment for the whole family



Monterey Bay Aquarium Plunge into the world's tallest aquarium exhibit. Discover how to feed a giant octopus. Then join scientists for the first-ever expedition 2,000 feet deep into the bay's undersea canyon. It's the ultimate tour that shows there's much more to Monterey Bay — and Monterey Bay Aquarium — than meets the eye.
Winner: Best Video 1988 from Billboard Magazine & American Film Institute

VHS only, approx. 30 mins. each, \$24.95 each.

Science News Books

1719 N Street, NW, Washington, DC 20036

Please send me the videos marked below. I include a check payable to Science News Books for the price of the video plus \$2.00 postage and handling for each video. Maximum \$4.00. Domestic orders only.

- | | |
|--|--|
| <input type="checkbox"/> Audubon Zoo | <input type="checkbox"/> SD Wild Animal Park |
| <input type="checkbox"/> Busch Gardens | <input type="checkbox"/> Monterey Bay Aquarium |
| <input type="checkbox"/> SD Zoo | <input type="checkbox"/> All, \$105.95 |

Name _____

Address _____

City _____

State _____ Zip _____

Daytime Phone # (_____) _____

(Used only for problems with order)

RB1224