

SIGNALS

The Science of Telecommunications

JOHN R. PIERCE AND A. MICHAEL NOLL



W. H. Freeman, 1990, 247 pages, 8 1/2" x 9 1/2", hardcover, \$32.95

Telecommunications has entered our lives in many forms — telephones, facsimile machines, compact discs and television are among the more conspicuous innovations. *Signals*, a volume in the Scientific American Library series, traces the history of telecommunications, surveying the numerous discoveries, theories and fields of study that have contributed to modern technology. Pierce and Noll explain for the general reader the science behind telecommunications devices and profile pioneers such as Alexander Graham Bell and Samuel Morse, following their revolutionary discoveries and inventions through to the technology that we take for granted today. They conclude with a glimpse at the future of communication, reviewing advances in cellular telephones, electronic information retrieval and the two-way picturephone.

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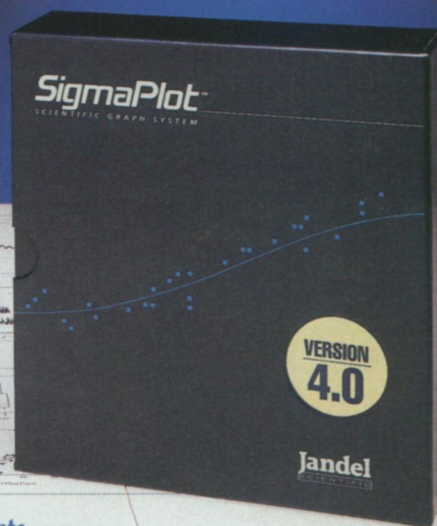
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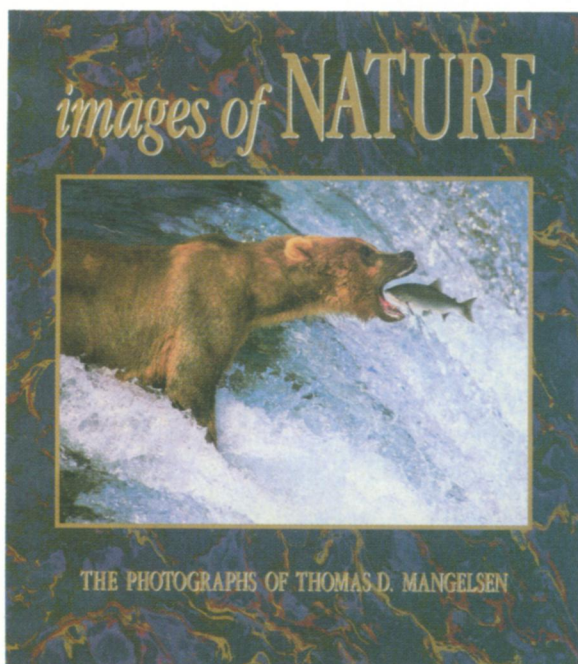
The Kingdom: Wildlife in North America presents a new vision of the living kingdom around us. More than 100 extraordinary color images by acclaimed wildlife photographer Art Wolfe and stimulating essays by naturalist Douglas Chadwick combine to create a unique portrait of North America's wildlife — and a celebration of the beauty and integrity of this kingdom.

Art Wolfe's stunning photographs include the classic portraits for which he is famous — from riveting close-ups of a snow-covered bison and Kodiak brown bear to warm, sometimes humorous views of a porcupine, tufted puffin and snowy owls. Wolfe extends his vision of the kingdom with his action shots, capturing wildlife in their natural habitats — among them, Alaskan brown bears sparring in the Brooks River and a humpback whale breaching the icy Alaskan waters. Each of Wolfe's images puts viewers directly in touch with the vital presence of animals in their environment.

Douglas Chadwick's narrative reflects on the origins of North American fauna and takes us along on his adventures from one end of the continent to the other. In the process, he poses vital questions: How have animals influenced us, and what changes have we imposed on wildlife communities? How might humans interact more meaningfully with the other inhabitants of North America? What does the future hold for all creatures of the kingdom as we approach the end of the twentieth century?

Together, Wolfe's spectacular photographs and Chadwick's eloquent text reveal wild creatures in a new light and provide a heartfelt plea for preserving not just the animals but what they have to teach us about our own lives.

— from the publisher



In more than 200 full-color pictures of Rocky Mountain ranges and African plains, frozen tundra and glimmering waterways and shorelines, Thomas D. Mangelsen, one of America's premiere nature photographers, captures the poetry of light and shadow, of fleeting instants of animal behavior, and of nature's stillness and grandeur. Acclaimed for the sensitivity with which he selects moments and composes scenes to communicate something essential — what critics refer to as *vision* — Mangelsen has photographed some of the earth's most interesting creatures. Here are bald eagles, caribou, ermines, leopards, brown bears, puffins and many more inhabitants of the wild. A biologist and dedicated conservationist, Tom Mangelsen has trekked the globe in his quest for extraordinary images that convey his love for the natural world and his passionate concern for its preservation. A virtual gallery of photographic masterworks, *Images of Nature* may rank as one of the more spectacular nature books ever published.

The text by Charles Craighead describes Mangelsen's painstaking art and relates some of the photographer's anecdotes about his journeys into rarely seen landscapes and his favorite animal subjects. Craighead's narrative descriptions of the regions Mangelsen explores vividly introduce the natural elements that inspire the photographer's images. A ravishing feast for the eyes, *Images of Nature* is a must for lovers of photography, wildlife and nature in all its moods.

— from the publisher

Great Holiday Gifts

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Images of Nature: Macmillan Publishing Co., 1989, 232 pages, 10 1/2" x 12 1/2", hardcover, \$60.00

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