

MATHEMATICS

AND THE SEARCH FOR

KNOWLEDGE

Morris Kline

Since ancient Greek times and increasingly as we approach modern times, mathematics has been a powerful instrument for the exploration of the physical world. Mathematics has transcended and out-classed perception. We can't observe phenomena like gravitation, electromagnetic waves, the universe of space-time and the structure of atoms directly through our senses.

In **Mathematics and the Search For Knowledge**, Kline recounts how scientists have turned more and more to mathematics as opposed to relying strictly on the empirical method of observation and experimentation. He takes the reader through science history from the Greeks through the twentieth century theories of relativity and quanta.

Oxford University Press, 1985, 257 pages, 6½" x 9½", hardcover, \$19.95

Our experience hitherto justifies us in believing that nature is the realization of the simplest conceivable mathematical ideas.

—Albert Einstein

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