

How do technicians repair broken communications cables at the bottom of the ocean without actually seeing them? What's the likelihood of plucking a needle out of a haystack the size of the Earth? And is it possible to use computers to create a universal library of everything ever written or every photo ever taken? These are just some of the intriguing questions that best-selling popular math writer Paul Nahin tackles in *Number-Crunching*. Through brilliant math ideas and entertaining stories, Nahin demonstrates how odd and unusual math problems can be solved by bringing together basic physics ideas and today's powerful computers. Some of the outcomes discussed are so counterintuitive they will leave readers astonished. Nahin looks at how the art of number-crunching has changed since the advent of computers, and how high-speed technology helps to solve fascinating conundrums such as the three-body, Monte Carlo, leapfrog, and gamblers ruin problems. Along the way, Nahin traverses topics that include algebra, trigonometry, geometry, calculus, number theory, differential equations, Fourier series, electronics, and computers in science fiction. He gives historical background for the problems presented, offers many examples and numerous challenges, supplies MATLAB codes for all the theories discussed, and includes detailed and complete solutions. Exploring the intimate relationship between mathematics, physics, and the tremendous power of modern computers, *Number-Crunching* will appeal to anyone interested in understanding how these three important fields join forces to solve today's thorniest puzzles.

Eric Liddell: *Something Greater Than Gold* (Christian Heroes: Then & Now), *Kill Zone: A Lucy Guardino FBI Thriller* (Lucy Guardino FBI Thrillers Book 3), *The Night Land*, *Your Ideal Hawaii Island Vacation East Side: A Guide for Visiting Hilo, Volcano, Kau, and Puna on the Big Island of Hawaii*, *Hidden Warbirds II: More Epic Stories of Finding, Recovering, and Rebuilding WWII's Lost Aircraft*, *On Being Intelligent.*, *Cowboys of Snow Lake* [Stars & Stripes: A Bedtime Story : Twist in the Saddle] (Siren Publishing Menage Amour ManLove), *The World Is Not for Sale: Farmers Against Junk Food*, *Mentalization-based Treatment for Borderline Personality Disorder: A Practical Guide*,

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Howls, C.J. () Book review. *Number crunching: taming unruly computational problems from mathematical physics to science fiction*. Times Higher Education.

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