Mathematics and its applications are amphibians that live between common sense and the irrelevance of common sense, between what is intuitive and what is counterintuitive, between the obvious and the esoteric. The tension that exists between these pairs of opposites is a source of its creative strength.

Addressed to all who are curious about mathematics and who wonder about its nature and the role it plays in society, this book provides discussions and examples from the simple to the more abstruse. Philip J. Davis is professor emeritus of Applied Mathematics at Brown University. His writings include numerous technical papers and books on complex variable theory, approximation theory, and numerical analysis, as well as on the philosophy of mathematics. His book *The Mathematical Experience*, co-authored with Reuben Hersh, won an American Book Award. He has for many years been a columnist for the *SIAM News*, a publication of the Society for Industrial and Applied Mathematics.