

INVISIBLE IN THE STORM

“With illuminating descriptions and minimal technicality, *Invisible in the Storm* provides a vivid historical perspective on how the development of mathematical ideas, together with modern computer technology, has completely transformed our ability to understand and predict the weather. This is a gripping and highly informative book.”

—ROGER PENROSE, author of *Cycles of Time: An Extraordinary New View of the Universe*

“As a TV weather forecaster for over forty years, I have always maintained that meteorology depends on mathematics for meaning. Making this conclusive point, *Invisible in the Storm* takes readers on an intriguing journey through the history of meteorology, revealing the critical role of mathematics from the earliest days of weather predicting to the current age of computer-generated forecasts. This book guides you inside the storm, where math’s importance is clearly visible.”

—SPENCER CHRISTIAN, chief weather forecaster at ABC-7 News/KGO-TV, San Francisco

“The tremendous improvement in weather prediction capabilities during the twentieth century is among the greatest success stories of the scientific approach to the understanding of nature. Combining a historical account with a qualitative/geometric approach, this enjoyable book makes that story accessible to a wider scientifically educated audience.”

—SEBASTIAN REICH, *University of Potsdam*

“This is a very readable account of why it is possible to forecast the weather with useful accuracy. Focusing on historical background, this well-researched and scientifically accurate book shows how the work of some of the greatest scientists of the past laid the foundations exploited in modern weather forecasting. I am not aware of any other book that covers this ground for a general scientific audience.”

—M. J. P. CULLEN, author of *A Mathematical Theory of Large-Scale Atmosphere/Ocean Flow*

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