



## Winning Ways for Your Mathematical Plays, Vol. 2

By Elwyn R. Berlekamp, John H. Conway, Richard K. Guy

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In the quarter of a century since three mathematicians and game theorists collaborated to create *Winning Ways for Your Mathematical Plays*, the book has become the definitive work on the subject of mathematical games. Now carefully revised and broken down into four volumes to accommodate new developments, the Second Edition retains the original's wealth of wit and wisdom. The authors' insightful strategies, blended with their witty and irreverent style, make reading a profitable pleasure. In Volume 2, the authors have a Change of Heart, bending the rules established in Volume 1 to apply them to games such as Cut-cake and Loopy Hackenbush. From the Table of Contents: - If You Can't Beat 'Em, Join 'Em! - Hot Bottles Followed by Cold Wars - Games Infinite and Indefinite - Games Eternal--Games Entailed - Survival in the Lost World

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### Editorial Review

#### Review

" "Winning Ways is an absolute must have for those who are interested in mathematical game theory. It is sure to please any fan of recreational mathematics or simply anyone who is interested in games and how to play them well." -Jacob McMillen, *Math Horizons*, November 2005

"The effort involved is amply rewarded as we journey from games of early childhood to the frontiers of research, and these seminal volumes are surely destined to remain essential reading for anyone working in combinatorial game theory." -*The Mathematical Gazette*, July 2004"

#### About the Author

Elwyn Berlekamp was born in Dover, Ohio, on September 6, 1940. After spending two years as Assistant Professor at the University of California, Berkeley, and five years at the Bell Telephone laboratories, in 1971 he became Professor of Mathematics and Electrical Engineering-Computer Science at Berkeley. His book **Algebraic Coding Theory received the best research paper award of the IEEE Information Theory Group. Eta Kappa Nu named him the "Outstanding Young Electrical Engineer" of 1971 in the U.S., and he has been President of the IEEE Information Theory Society. In 1977 he was elected to membership of the US National Academy of Engineering.**

John Conway is a Fellow of Gonville and Caius College and a former Fellow of Sidney Sussex College, Cambridge, and is Reader in Pure Mathematics at the University of Cambridge. He has held visiting professorships at several universities and has made original contributions to many branches of mathematics, notably transfinite arithmetic, the theory of knots, many-dimensional geometry and the theory of symmetry (group theory).

Richard Guy has taught mathematics at many levels and in many places-England, Singapore, India, Canada. Since 1965 he has been Professor of Mathematics at the University of Calgary and he is a member of the Board of Governors of the Mathematical Association of America. He edits the Unsolved Problems section of **American Mathematical Monthly**; he wrote the volume on Number Theory for the series: **Unsolved Problems in Intuitive Mathematics** and is preparing another on Combinators, Graph Theory, and Game Theory. He is a keen member of the Alpine Club of Canada.

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