

## Table of Contents

Preface	vii
Dedication	ix
Acknowledgments	xi
<b>Part I: REAL DYNAMICS</b>	<b>1</b>
Introduction	3
The characteristics of a vector field on the two-sphere (1953)	15
On the concept of attractor (1985)	21
On the concept of attractor: correction and remarks (1985)	43
Directional entropies of cellular automaton-maps (1986)	47
On the entropy geometry of cellular automata (1988)	51
Non-expansive Hénon maps (1988)	81
On iterated maps of the interval (1988) WITH W. THURSTON	87
A monotonicity conjecture for real cubic maps (1995) WITH S. P. DAWSON, R. GALEEVA, C. TRESSER	157
On entropy and monotonicity for real cubic maps (2000) WITH C. TRESSER, AND WITH AN APPENDIX BY A. DOUADY AND P. SENTENAC	177
Fubini foiled: Katok's paradoxical example in measure theory (1997)	233
<b>Part II: COMPLEX DYNAMICS</b>	<b>237</b>
Introduction	239
Dynamical properties of plane polynomial automorphisms (1989) WITH S. FRIEDLAND	255
Self-similarity and hairiness in the Mandelbrot set (1989)	289
Remarks on iterated cubic maps (1992)	337
Geometry and dynamics of quadratic rational maps (1993) WITH AN APPENDIX BY THE AUTHOR AND TAN LEI	371

The Fibonacci unimodal map (1993) WITH M. LYUBICH	439
Fixed points of polynomial maps. Part II. Fixed point portraits (1993) WITH L. GOLDBERG	473
The mathematical work of Curt McMullen (1999)	521
Index of Symbols	531
Main Index	537