

## TABLE OF CONTENTS

PREFACE	ix
Perturbation results on the long run behavior of nonlinear dynamical systems	1
H. CARRILLO C.	
Harmonic maps and minimal surface coboundaries	11
K.-C. CHANG AND J. EELLS	
Lefschetz formulas for flows	19
D. FRIED	
Phase locking and higher order averaging	71
C. GARCIA AND A. MINZONI	
Groupes D'homeomorphismes du cercle et cohomologie bornée	81
E. GHYS	
Harmonic maps of Riemann surfaces to quaternionic projective spaces and grassmannians	107
J. GLAZEBROOK	
Foliations by curves of complex analytic spaces	123
X. GOMEZ-MONT	
Renormalization of one dimensional mappings and strange attractors	143
J. GUCKENHEIMER	
Orbits and harmonic maps	161
M. GUEST	
Some examples of infinite dimensional systems	173
J. HALE	
E. Cartan's generalized spaces and connections	183
M. KURANISHI	

Infinity manifolds for positive energy in celestial mechanics E. LACOMBA	193
Homoclinic orbits, hyperbolic dynamics and dimension of cantor sets J. PALIS	203
On the estimate of number of solutions for the nonlinear boundary values problem V. SCHUCHMAN	217
The index of a vector field on a complex analytic surface with singularities J. SEADE	225
A uniformization theorem for holomorphic foliations A. VERJOVSKY	233