

CONTENTS

Introduction

EXPOSITORY PAPERS :

- D. JOSEPH : Lectures on bifurcation from periodic orbits..... 1
- D. SCHAEFFER : General introduction to steady state bifurcation. 13

CONTRIBUTED PAPERS :

- M. BRIN & A.K. MANNING : Anosov diffeomorphisms with pinched spectrum. 48
- H. BROER : Formal normal form theorems for vector fields and some consequences for bifurcations in the volume preserving case. . 54
- H. BROER : Quasi periodic flow near a codimension one singularity of a divergence free vector field in dimension three. 75
- J. FRANKS & L-S. YOUNG : A C^2 Kupka-Smale diffeomorphism of the disk with no sources or sinks. 90
- J. GUCKENHEIMER : On a codimension two bifurcation. 99
- J. HALE : Stability and bifurcation in a parabolic equation. 143
- J. HARRISON : Wandering intervals. 154
- P. HOLMES : Space- and time-periodic perturbations of the Sine-Gordon equation. 164
- G. IOOSS, A. ARNEODO, P. COULLET & C. TRESSER : Simple computation of bifurcating invariant circles for mappings. 192
- I.P. MALTA & J. PALIS : Families of vector fields with finite modulus of stability. 212
- R. MAÑÉ : On the dimension of the compact invariant sets of certain non-linear maps. 230
- A.K. MANNING : More topological entropy for geodesic flows. 243
- L. MARKUS : Controllability of multi-trajectories on Lie groups. 250
- W. DE MELO, J. PALIS & S.J. VAN STRIEN : Characterising diffeomorphisms with modulus of stability one. 266

J.W. ROBBIN : Algebraic Kupka-Smale theory.....	286
C. ROBINSON : Differentiability of the stable foliation for the model Lorenz equations.....	302
S.J. VAN STRIEN : On the bifurcations creating horseshoes.....	316
S.J. VAN STRIEN : Saddle connections of arcs of diffeomorphisms : moduli of stability.....	352
F. TAKENS : Detecting strange attractors in turbulence.....	366
M.A. TEIXEIRA : Local and simultaneous structural stability of certain diffeomorphisms.....	382
