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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	1 Foliations with all leaves compact -- 2. A question concerning compact foliations -- 3. Compact leaves of foliations -- 4. Foliations with measure preserving holonomy -- 5. Foliated bundles, flat manifolds and invariant measures -- 6. A stable analytic foliation with only exceptional minimal sets -- 7. Accessibility and foliations -- 8. A Poincaré-Bendixson Theorem for $R^2$ -actions -- 9. Linearly induced vector fields and $R^2$ -actions on spheres -- 10. Structural stability for line fields with singularities on two-manifolds -- 11. Lie algebra preserving diffeomorphisms -- 12. The point spectrum of the adjoint to an automorphism of a vector bundle -- 13. Structural stability for $C^1$ diffeomorphisms -- 14. Absolute and infinitesimal stability -- 15. Classification of Anosov diffeomorphisms on Tori -- 16. Quasi-Anosov diffeomorphisms -- 17. Suspensions of topological Markov chains -- 18. Equilibrium states -- 19. Ergodic theory of Axiom A flows -- 20. Homology theory and dynamical systems -- 21. Topological entropy and stability -- 22. Cohomology of expanding attractors -- 23. Homology classes composed of infinitely many unstable manifolds of a dynamical system -- 24. Morse inequalities for diffeomorphisms with shoes and flows with solenoids -- 25. Arcs of Dynamical Systems : Bifurcations and Stability -- 26. Simple arcs and stable dynamical systems -- 27. Hilbert's 16th problem : Limit cycles of polynomial vector fields in the plane -- 28. Topological conjugacy of real

projective transformations -- 29. Fixed point index of area-preserving maps -- 30. Homoclinic points of area-preserving maps -- 31. Generic Bifurcations in Hamiltonian Systems -- 32. The Maslov index for Lagrangian manifolds -- 33. Contact equivalence for Lagrangian submanifolds -- 34. Optimisation of several functions -- 35. Bifurcation of Whitney Maps  $R^n \rightarrow R^2$  and Critical Pareto sets -- 36. A certain semilinear system of partial differential equations -- 37. Constrained Differential Equations -- 38. What is the Unit of Selection? -- 39. Zakalyukin's proof of the (uni)versal unfolding theorem -- 40. The Catastrophe of a Buckling Beam -- 41. Reversals of the Earth's Magnetic Field -- 42. Phase transitions as catastrophes -- 43. Caustics and catastrophes -- 44. Catastrophe theory in biology -- 45. Pyramidal Cells as Hierarchical Relators -- Solving a single conservation law -- Infinite codimension and transversality -- On infinitesimal and absolute stability of diffeomorphisms -- Expansive diffeomorphisms -- Stability of endomorphisms -- Topological entropy and the first homology group -- The implicit function theorem and analytic differential equations -- On simple arcs between structurally stable flows -- Nondifferentiability of invariant foliations -- Genericity theorems in topological dynamics -- The homology class of an expanded invariant manifold -- On the entropy conjecture -- Structural stability of  $C^1$  flows -- Removing index zero singularities with  $C^1$  small perturbations -- Sufficient conditions for an optimum -- Tolerance stability -- Geometric aspects of non-linear R.L.C. networks -- Regular stratifications -- Fifty problems in dynamical systems -- Dynamical systems : Five years after -- Catastrophe Theory : Its present state and future perspectives -- La théorie des catastrophes : état présent et perspectives -- Catastrophe Theory : A reply to Thom -- Answer to Christopher Zeeman's reply -- Author Index.

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