I.	VECTOR FIELDS ON MANIFOLDS	1
	 Integration of vector fields. General theory of orbits. Invariant and minimal sets. Limit sets. Direction fields. Vector fields and isotopies. 	1 13 18 21 27 34
II.	THE LOCAL BEHAVIOUR OF VECTOR FIELDS	39
	 Stability and conjugation. Linear differential equations. Linear differential equations with constant coefficients. Linear differential equations with periodic coefficients. Variation field of a vector field. Behaviour near a singular point. Behaviour near a periodic orbit. Conjugation of contractions in R. 	39 44 47 50 52 57 59 67
Œ.	PLANAR VECTOR FIELDS	75
	 Limit sets in the plane. Periodic orbits. Singular points. The Poincaré index. Planar direction fields. Direction fields on cylinders and Moebius strips. Singular generic foliations of a disc. 	75 82 90 105 116 123 127
IV.	DIRECTION FIELDS ON THE TORUS AND HOMEOMORPHISMS OF THE CIRCLE	130
	 Direction fields on the torus. Direction fields on a Klein bottle. Homeomorphisms of the circle without periodic point. Rotation number of Poincaré. Conjugation of circle homeomorphisms to rotations. Homeomorphism groups of an interval. Homeomorphism groups of the circle. 	130 137 144 151 159 166 170
٧.	VECTOR FIELDS ON SURFACES	178
	 Classification of compact surfaces. Vector fields on surfaces. The index theorem. Elements of differential geometry of surfaces. 	178 181 188

200

BIBLIOGRAPHY