## **Contents**

	Preface	vii
1	Manifolds and differentiable structures	1
2	Tangent space	13
3	Vector bundles	22
4	Linear algebra for vector bundles	34
5	Local and tangential properties	44
6	Sard's theorem	56
7	Embedding	62
8	Dynamical systems	74
9	Isotopy of embeddings	88
0	Connected sums	98
1	Second order differential equations and sprays	108
12	The exponential map and tubular neighbourhoods	115
13	Manifolds with boundary	129
14	Transversality	143
	References	153
	Index of symbols	155
	Subject index	157