## **Contents**

1.	Introd	uction and Examples	
2.	Complex and Hermitian Structures on a Vector Space		6
3.	Almost Complex Manifolds; Integrability Conditions		12
4.	Sheaves and Cohomology		23
5.	Complex Vector Bundles; Connections		31
6.	Holomorphic Vector Bundles and Line Bundles		46
7.	. Hermitian Geometry and Kählerian Geometry		55
8.	The Gr	assmann Manifold	68
9.	Curves in a Grassmann Manifold		83
		Bibliography	95
Appendix: Geometr		Geometry of Characteristic Classes	9'
		1. Historical Remarks and Examples	9'
		2. Weil Homomorphism	117
		3. Secondary Invariants	119
		5. Vector Fields and Characteristic Numbers	13
		6. Holomorphic Curves	140
		References	14
Ind	lex		15