

# Contents

1.	The Moduli Problem	1
1.	The Problem of Existence of Complex Structures	1
	Appendix to Section 1: Characteristic Classes	100
2.	The Problem of Uniqueness of the Complex Structure on the Complex Projective Space	110
3.	The Problem of Embedding of Complex Manifolds	123
4.	The Moduli Problem	134
2.	Deformation Theory of Compact Complex Manifolds	148
1.	The Theorem of Kodaira-Nirenberg-Spencer	148
2.	The Theorem of Kuranishi	159
3.	Obstructions to the existence of Deformations and to the Existence of a Local Space of Moduli	162
4.	Stability of Structures	165
5.	Deformation Theories for Other Structures	171
3.	Classification Theory of Compact Complex Manifolds	178
1.	Classification of Compact Riemann Surfaces	178
2.	Classification of Compact Connected Complex Surfaces	179
3.	Classification of Higher Dimensional Compact Complex Manifolds	197
	REFERENCES	203