

CONTENTS

§1.	Modules of differentials	.....	1
§2.	Basic properties of modules of differentials	.....	5
§3.	Modules of imperfection	.....	18
§4.	Field extensions	.....	21
§5.	Some notions on modules and algebras	.....	28
§6.	Modules of differentials of topological algebras	.....	37
§7.	Differential modules of affine rings over fields	.....	41
§8.	Formally smooth algebras and regular local rings	.....	45
§9.	On exact sequences of modules of differentials of local rings	.....	59
§10.	Completions	.....	65
§11.	Some applications	.....	68
§12.	Algebras with formally projective modules of differentials	.....	85
§13.	Differential ideals in regular local rings and characterizations of regular local rings	..	90
§14.	Jacobian criteria	.....	97
§15.	Modules of differentials of localities of complete intersection	.....	102

Appendix : High Orde Derivations

§A 1.	Definitions and basic properties	111
§A 2.	Topological cases	126
§A 3.	Field extensions	135
§A 4.	Rings of differentials	146
§A 5.	Galois correspondence	152
	Bibliographie	160