

CONTENTS

PREFACE	<i>page</i> vii
ACKNOWLEDGEMENTS	viii
INTRODUCTION	
1 Geomorphic systems and models	1
2 Starting points: systems of reference	11
PART ONE: FORCE AND RESISTANCE	
3 Force: sources of energy for debris transport	27
4 Resistance	62
PART TWO: PROCESS: THE INTERACTION OF FORCE AND RESISTANCE	
5 Process: introduction	99
6 Instability processes in rock masses	111
7 Instability in soil masses	148
8 Surface water erosion	188
9 Sub-surface water erosion	231
10 Soil creep	272
PART THREE: FORM: COMPARISON OF REAL FORMS WITH PROCESS-RESPONSE MODELS	
11 Humid temperate areas	301
12 The periglacial landscape	324
13 Semi-arid and arid landscapes	338
14 Tropical landforms	356
PART FOUR: SYNTHESIS	
15 Slope profiles	369
16 Slopes in drainage basins	390

Contents

Appendix A	Derivation of slope stability formulae	425
Appendix B	Derivation of characteristic form equations	433
Appendix C	Conditions for profile convexity or concavity	437
Appendix D	Notations used	440
Bibliography		443
Index		468