## CONTENTS

I	Introduction	1
PAR	RT 1. CONVEX PROGRAMMING	
1. (	Characterizing Optimal Solutions	13
2	<ol> <li>Directions, 13</li> <li>Dual Sets and Separation, 25</li> <li>Characterizations of Optimality, 27</li> <li>A Parametric Approach to Optimality Conditions, 53</li> </ol>	
2. \$	Some Computational Methods	59
6 7	<ul> <li>The Method of Feasible Directions, 59</li> <li>Modified Direction-Finding Generators, 63</li> <li>The Parametric Feasible-Direction Algorithm, 70</li> <li>Solving Constrained Line Search Problems, 77</li> </ul>	
3. \$	Selected Applications	88
10	9. Pareto Optimization, 88 10. Lexicographic Multicriteria Programs, 91 11. Chebyshev Solutions, 94	
PAR	RT 2. NONCONVEX PROGRAMMING	
4. (	General Necessary Conditions	99
12 13 14	3. Dual Elements: Support Functions, 106	

xii	CONTENTS
5. Optimality Conditions for Differentiable Programs	120
15. Necessary Conditions, 120	
16. Sufficient Conditions, 129	
References	135
Glossary of Symbols	141
Index	143