## AN INTRODUCTION TO The Method of Characteristics

## MICHAEL B. ABBOTT

B.Sc.(Eng.), Dip.H.E.(Delft), Ph.D., A.M.I.C.E.



## AMERICAN ELSEVIER NEW YORK

## CONTENTS

	Preface pa	
1	A Preliminary Survey	. 1
2	A Geometrical Description of the Characteristics	45
3	Determination of Characteristics	56
4	Long Wave Motions in Incompressible Fluids	82
5	Application of the Method to Problems of Gas Dynamics	128
6	Application of the Method to the Theory of Plasticity and the Mechanics of Granular Materials	165
7	Synthesis of the Method	196
8	The Role of the Characteristics in Machine Computation	206
	Appendix	216
	Author Index	239
	Subject Index	241