

CONTENTS

Foreword	viii
Preface	ix
Pattern formation and time-dependence in flowing sand	1
<i>G.W. Baxter, R.P. Behringer, T. Fagert and G.A. Johnson</i>	
The mathematical structure of the equations for quasi-static plane strain deformations of granular material	30
<i>Ian F. Collins</i>	
Relation of microstructure to constitutive equations	45
<i>Donald A. Drew, Gary S. Arnold and Richard T. Lahey, Jr.</i>	
The velocity of dynamic waves in fluidised beds	56
<i>Larry Gibilaro, Piero Foscolo and Renzo di Felice</i>	
Transport processes in concentrated suspensions: The role of particle fluctuations	70
<i>James T. Jenkins and David F. McTigue</i>	
Stress in dilute suspensions	80
<i>Stephen L. Passman</i>	
Computations of granular flow in a hopper	88
<i>E. Bruce Pitman</i>	
Stability of two-phase flow models	98
<i>Andrea Prosperetti and James V. Satrape</i>	
Mathematical issues in the continuum formulation of slow granular flow ...	118
<i>David G. Schaeffer</i>	
One-dimensional, particle bed models of fluidized suspensions	130
<i>P. Singh and D. D. Joseph</i>	
On Geurst's equations for inertial coupling in two-phase flow	150
<i>Graham B. Wallis</i>	