



## Sedimentary structures, their character and physical basis [

Allen, John R.L.

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Monografía

Sedimentary structures, their character and physical basis Volume 1

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**Contenido:** Front Cover; Sedimentary Structures: Their Character and Physical Basis; Copyright Page; Contents; GENERAL PREFACE AND INTRODUCTION TO VOLUME I; Chapter 1. ENVIRONMENTAL FLUID DYNAMICS; Introduction; Natural fluids and solids; Sedimentation: environments, agents and products; Boundary layers on a rotating Earth; Separation of flow; Mass flows; Water in rivers and ice tunnels; The atmosphere in motion; Surface and internal waves; Gravity currents; Summary; Chapter 2. ENTRAINMENT AND TRANSPORT OF SEDIMENTARY PARTICLES; Introduction; Shape and size of sedimentary particles Sedimentary particles in bulkParticle entrainment from cohesionless beds; Erosion of cohesive beds; Particle settling; Some general concepts of sediment transport; Forces acting on transported particles; Modes of sediment transport and particle motion; Equilibrium sediment transport; Sediment transport and deposition in varying flows; Unusual modes of sediment transport; Summary; Chapter 3. PARTICLE MOTIONS AT LOW CONCENTRATIONS: GRADING IN PYROCLASTIC-FALL DEPOSITS; Introduction; Pyroclastic debris; Classification of explosive volcanic eruptions Thickness changes in pyroclastic-fall depositsVertical grading; Lateral grading; Models for the distribution of volcanic ejecta; Bomb sags; Summary; Chapter 4. PACKING OF SEDIMENTARY PARTICLES; Introduction; Some definitions; Ordered sphere packings; Ordered spheroid packings; Ordered packings of other regular shapes; Random sphere packings; Wall and related effects; Haphazard packings; Effects of mode of deposition and material properties on the packing of cohesionless particles; Summary; Chapter 5. ORIENTATION OF PARTICLES DURING SEDIMENTATION: SHAPE-FABRICS; Introduction Measurement and representation

of shape-fabrics Shape-fabrics due to settling in the field of gravity; Shape-fabrics due to translation in shear flows; Shape-fabrics due to translation in pure shear; Shape-fabrics of flows of densely arrayed particles; Preferred orientations of particles lodging on a horizontal bed; Shape-fabrics of muddy sediments; Summary; Chapter 6. TRANSITION TO TURBULENCE AND THE FINE STRUCTURE OF STEADY TURBULENT BOUNDARY LAYERS: PARTING LINEATION AND RELATED STRUCTURES; Introduction; Outline of techniques; Transition to turbulence; Changes in velocity profile Sedimentary structures and transition configurations Flow configurations of turbulent boundary layers; General effects of streaks on deformable beds; Parting lineation; Longitudinal grooves in mud beds; Summary; Chapter 7. MODELS OF TRANSVERSE BEDFORMS IN UNIDIRECTIONAL FLOWS; Introduction; Chief transverse bedforms; Physical models of transverse bedforms; Mathematical models of erodible bed stability: the two-dimensional case; Mathematical models of erodible bed stability: the three-dimensional case; Bed-wave shape and size; Statistical analysis of bedforms; Summary Chapter 8. EMPIRICAL CHARACTER OF RIPPLES AND DUNES FORMED BY UNIDIRECTIONAL FLOWS

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