



Authoritative, accessible and updated introduction to sedimentary rocks for students and professional geologists

Sedimentary Petrology provides readers with a concise account of sedimentary rock composition, mineralogy, texture, structure, diagenesis and depositional environments. The new edition of this classic text incorporates the many technological and analytical advances of the last decade, revealing exciting details of processes such as microbial precipitation, microporosity in mudrocks and chemistry of sediment grains and cements. The book is enhanced with many new images of sedimentary rocks in thin-section, revealing details of their composition and formation.

This fourth edition offers a comprehensive update and expansion of the previous editions with a new set of illustrations, new references and further reading. The new co-author Stuart Jones has brought his considerable expertise in clastic sedimentology to the rewritten chapters on sandstones and mudrocks. The addition of colour figures throughout the text will aid students immensely in their studies and petrographic work.

Sample topics covered in *Sedimentary Petrology* include:

- Limestones, evaporites, sandstones, conglomerates, breccias and mudrocks
- Sedimentary ironstones and iron-formations, sedimentary phosphate deposits, coal, oil shale and petroleum, and cherts and siliceous sediments
- Advances in modeling and programming to simulate depositional-diagenetic conditions and controls which support field and laboratory descriptions and interpretations
- Ocean acidification and its effects, the role of the oceans in carbon capture and storage, and the effects of microplastics on marine organisms

Aimed at undergraduates in geology, earth and environmental sciences, *Sedimentary Petrology* is an excellent teaching and learning resource for introductory courses in sedimentary rocks. In addition, the book will be a valuable reference for graduate students and professional geologists seeking an up-to-date account of the subject area.

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