

CONTENTS

	PAGE
PREFACE	[v]
G. K. WESTBROOK Geophysical evidence for the role of fluids in accretionary wedge tectonics	[1]
M. KASTNER, H. ELDERFIELD AND J. B. MARTIN Fluids in convergent margins: what do we know about their composition, origin, role in diagenesis and importance for oceanic chemical fluxes?	[17]
R. J. KNIPE, S. M. AGAR AND D. J. PRIOR The microstructural evolution of fluid flow paths in semi-lithified sediments from subduction complexes	[35]
J. C. MOORE, K. M. BROWN, F. HORATH, G. COCHRANE, M. MACKAY AND G. MOORE Plumbing accretionary prisms: effects of permeability variations	[49]
A. TAIRA AND K. T. PICKERING Sediment deformation and fluid activity in the Nankai, Izu-Bonin and Japan forearc slopes and trenches	[63]
X. LE PICHON, P. HENRY AND THE KAIKO-NANKAI SCIENTIFIC CREW Water budgets in accretionary wedges: a comparison	[89]
B. CARSON, M. L. HOLMES, K. UMSTATTS, J. C. STRASSER AND H. P. JOHNSON Fluid expulsion from the Cascadia accretionary prism: evidence from porosity distribution, direct measurements, and GLORIA imagery	[105]
S. M. PEACOCK Numerical simulation of subduction zone pressure-temperature-time paths: constraints on fluid production and arc magmatism	[115]
J. H. DAVIES AND M. J. BICKLE A physical model for the volume and composition of melt produced by hydrous fluxing above subduction zones	[129]

	PAGE
J. C. AYERS AND E. B. WATSON Solubility of apatite, monazite, zircon, and rutile in supercritical aqueous fluids with implications for subduction zone geochemistry	[139]
A. D. SAUNDERS, M. J. NORRY AND J. TARNEY Fluid influence on the trace element compositions of subduction zone magmas	[151]
C. J. HAWKESWORTH, J. M. HERGT, R. M. ELLAM AND F. McDERMOTT Element fluxes associated with subduction related magmatism	[167]
W. F. McDONOUGH Partial melting of subducted oceanic crust and isolation of its residual eclogitic lithology	[181]