

CONTENTS OF No. 321, MARCH 1978

	<i>page</i>
IAN PARSONS: Feldspars and fluids in cooling plutons	1
R. G. J. STRENS and ROBERT FREER: The physical basis of mineral optics. I. Classical theory	19
B. G. J. UPTON, P. G. HILL, O. JOHNSEN, and O. V. PETERSEN: Emeleusite: a new LiNaFe ^{III} silicate from south Greenland	31
B. R. YOUNG, J. R. HAWKES, R. J. MERRIMAN, and M. T. STYLES: Bazirite, BaZrSi ₃ O ₉ , a new mineral from Rockall Island, Inverness-shire, Scotland	35
HARTMUT SCHNEIDER: Investigations on the deformation of experimentally shock-loaded biotites using X-ray single crystal diffraction techniques	41
T. M. LEACH and K. A. RODGERS: Metasomatism in the Wairere Serpentinite, King Country, New Zealand	45, and M12 (App.)
RENZO DE PIERI and SERGIO QUAREN: Partition coefficients of alkali and alkaline-earth elements between alkali feldspar phenocrysts and their lava matrix	63
A. A. AHMED and B. E. LEAKE: The Inishdawros meta-peridotite, Callow, Ballyconneely, Connemara, Western Ireland	69
DAVID L. BISH and G. W. BRINDLEY: Deweylites, mixtures of poorly crystalline hydrous serpentine and talc-like minerals	75
R. E. BEVINS: Pumpellyite-bearing basic igneous rocks from the Lower Ordovician of North Pembrokeshire, Wales	81
I. R. PLIMER and P. M. ASHLEY: Manganoan ilvaite from Broken Hill, N.S.W. and Ban Ban, Queensland, Australia	85
ALLAN F. WILSON: Hydrous cordierite with isotopically light oxygen from granulites, Strangways Range, Central Australia	89
J. OSTWALD: Linnaeite series minerals from the Kalgoorlie district, Western Australia	93
T. F. D. NIELSEN and O. JOHNSEN: Titaniferous clinohumite from Gardiner Plateau Complex, East Greenland	99
R. J. PARKER: Quantitative determination of analcime in pumice samples by X-ray diffraction	103
M. AKIZUKI and J. ZUSSMAN: The unit cell of talc	107
JOHN F. W. BOWLES: The geochemical role of primary copper-sulphur mineralization in the crystallization of the Freetown (Sierra Leone) layered gabbro	111
KURT WALENTA: Uranosposphate and arsenuranosposphate	117
PAUL B. MOORE: Welshite, Ca ₂ Mg ₄ Fe ³⁺ Sb ⁵⁺ O ₂ [Si ₄ Be ₂ O ₁₈], a new member of the aenigmatite group	129
PAUL BRIAN MOORE: Manganhumite, a new species	133
PAUL B. MOORE and JUN ITO: Kidwellite, NaFe ³⁺ (OH) ₁₀ (PO ₄) ₆ .5H ₂ O, a new species	137
NORMAN HOLGATE: A composite tholeiite dyke at Imachar, Isle of Arran: its petrogenesis and associated pyrometamorphism	(Synopsis) 141, M1
S. AHMAD and D. F. C. MORRIS: Geochemistry of some lateritic nickel-ores with particular reference to the distribution of noble metals	(Synopsis) 143, M4
F. SCORDARI: The crystal structure of hohmannite, Fe ₂ (H ₂ O) ₄ [(SO ₄) ₂ O].4H ₂ O and its relationship to amaranite, Fe ₂ (H ₂ O) ₄ [(SO ₄) ₂ O].3H ₂ O	(Synopsis) 144, M9
R. M. BRIGGS: Ferrocapholite associated with low-grade blueschists, northern New Caledonia	(Synopsis) 147, M16
ROBERT A. IXER: The distribution of bravoite and nickeliferous Marcasite in central Britain	149
MAURICE STONE and MICHAEL C. GEORGE: Amblygonite in leucogranites of the Tregonning-Godolphin Granite, Cornwall	151
G. M. GIBSON: Staurolite in amphibolite and hornblendite sheets from the Upper Seaforth River, central Fiordland, New Zealand	153
ZULFIQAR AHMED: Chromite from Sakhakot-Qila area, Malakand Agency, Pakistan	155
R. S. THORPE: The parental basaltic magma of granites from the Isle of Skye, NW. Scotland	157
ERNST-DIETER FRANZ: Synthetic solid solutions between goethite and diasporite	159
Book Reviews	161

UNIVERSITY PRESS, OXFORD, ENGLAND