Stabilizer/fitanium dioxide pigment combinations in polyethylene J. HILGARTH Direct observation of dislocations in GaP crystals A. K. BASU and F. R. SALE Copper—tungsten composite powders by the hydrogen reduction of copper tungstate Letters J. J. MILLS and A.R.C. WESTWOOD Influence of chemomechanically active fluids on diamond wear during hard rock drilling G. A. COOPER and J. BERLIE Comments on "Influence of chemomechanically active fluids on diamond wear during hard rock drilling" K. TAKAHASHI, M. KIMURA and S. HYODO Velocity measurement by ultrasonic fractography for cracks in glassy polymers W. POMPE, HA. BAHR, G. GILLE and W. KREHER Increased fracture toughness of brittle materials by microcracking in an energy dissipative zone at the crack tip D. C. CREAGH and S. H. AYLING The determination of the lattice parameter for GdCo ₂ G. CARTER, M. J. NOBES and J. L. WHITTON The stability of equilibrium surface topography developed by sputtering H. A. MOHAMED Determination of the recovery stresses developed by shape memory alloys K. CHATTOPADHYAY, S. LELE and P. RAMMCHANDRARAO On Al ₂ M-type phases in splat cooled aluminium alloys T. Z. KATTAMIS and J. C. LECOMTE A novel method for the establishment of solvus surfaces as demonstrated with nickel-base alloys C. E. HOLCOMBE New magnesium hydroxynitrate hydrate binder S. N. GHOSH Indexes to Volume Thirteen 2742	N. S. ALLEN, D. J. BULLEN and J. F. McKELLAR Photo-yellowing of a phenolic anti-oxidant in the presence of various	2692
A. K. BASU and F. R. SALE Copper—tungsten composite powders by the hydrogen reduction of copper tungstate Letters J. J. MILLS and A.R.C. WESTWOOD Influence of chemomechanically active fluids on diamond wear during hard rock drilling G. A. COOPER and J. BERLIE Comments on "Influence of chemomechanically active fluids on diamond wear during hard rock drilling" K. TAKAHASHI, M. KIMURA and S. HYODO Velocity measurement by ultrasonic fractography for cracks in glassy polymers W. POMPE, HA. BAHR, G. GILLE and W. KREHER Increased fracture toughness of brittle materials by microcracking in an energy dissipative zone at the crack tip D. C. CREAGH and S. H. AYLING The determination of the lattice parameter for GdCo ₂ G. CARTER, M. J. NOBES and J. L. WHITTON The stability of equilibrium surface topography developed by sputtering H. A. MOHAMED Determination of the recovery stresses developed by shape memory alloys K. CHATTOPADHYAY, S. LELE and P. RAMACHANDRARAO On Al ₂ M-type phases in splat cooled aluminium alloys T. Z. KATTAMIS and J. C. LECOMTE A novel method for the establishment of solvus surfaces as demonstrated with nickel-base alloys C. E. HOLCOMBE New magnesium hydroxynitrate hydrate binder S. N. GHOSH Thermochemical effects on the formation of Ca ₃ SiO ₅	stabilizer/titanium dioxide pigment combinations in polyethylene J. HILGARTH	2697
Copper—tungsten composite powders by the hydrogen reduction of copper tungstate Letters J. J. MILLS and A.R.C. WESTWOOD Influence of chemomechanically active fluids on diamond wear during hard rock drilling G. A. COOPER and J. BERLIE Comments on "Influence of chemomechanically active fluids on diamond wear during hard rock drilling" K. TAKAHASHI, M. KIMURA and S. HYODO Velocity measurement by ultrasonic fractography for cracks in glassy polymers W. POMPE, HA. BAHR, G. GILLE and W. KREHER Increased fracture toughness of brittle materials by microcracking in an energy dissipative zone at the crack tip D. C. CREAGH and S. H. AYLING The determination of the lattice parameter for GdCo ₂ G. CARTER, M. J. NOBES and J. L. WHITTON The stability of equilibrium surface topography developed by sputtering H. A. MOHAMED Determination of the recovery stresses developed by shape memory alloys K. CHATTOPADHYAY, S. LELE and P. RAMACHANDRARAO On Al ₂ M-type phases in splat cooled aluminium alloys T. Z. KATTAMIS and J. C. LECOMTE A novel method for the establishment of solvus surfaces as demonstrated with nickel-base alloys C. E. HOLCOMBE New magnesium hydroxynitrate hydrate binder S. N. GHOSH Thermochemical effects on the formation of Ca ₃ SiO ₅	Direct observation of dislocations in GaP crystals	
J. J. MILLS and A.R.C. WESTWOOD Influence of chemomechanically active fluids on diamond wear during hard rock drilling G. A. COOPER and J. BERLIE Comments on "Influence of chemomechanically active fluids on diamond wear during hard rock drilling" K. TAKAHASHI, M. KIMURA and S. HYODO Velocity measurement by ultrasonic fractography for cracks in glassy polymers W. POMPE, HA. BAHR, G. GILLE and W. KREHER Increased fracture toughness of brittle materials by microcracking in an energy dissipative zone at the crack tip D. C. CREAGH and S. H. AYLING The determination of the lattice parameter for GdCo ₂ G. CARTER, M. J. NOBES and J. L. WHITTON The stability of equilibrium surface topography developed by sputtering H. A. MOHAMED Determination of the recovery stresses developed by shape memory alloys K. CHATTOPADHYAY, S. LELE and P. RAMACHANDRARAO On Al ₂ M-type phases in splat cooled aluminium alloys T. Z. KATTAMIS and J. C. LECOMTE A novel method for the establishment of solvus surfaces as demonstrated with nickel-base alloys C. E. HOLCOMBE New magnesium hydroxynitrate hydrate binder S. N. GHOSH Thermochemical effects on the formation of Ca ₃ SiO ₅	Copper-tungsten composite powders by the hydrogen reduction of copper	2703
Influence of chemomechanically active fluids on diamond wear during hard rock drilling G. A. COOPER and J. BERLIE Comments on "Influence of chemomechanically active fluids on diamond wear during hard rock drilling" K. TAKAHASHI, M. KIMURA and S. HYODO Velocity measurement by ultrasonic fractography for cracks in glassy polymers W. POMPE, HA. BAHR, G. GILLE and W. KREHER Increased fracture toughness of brittle materials by microcracking in an energy dissipative zone at the crack tip D. C. CREAGH and S. H. AYLING The determination of the lattice parameter for GdCo ₂ G. CARTER, M. J. NOBES and J. L. WHITTON The stability of equilibrium surface topography developed by sputtering H. A. MOHAMED Determination of the recovery stresses developed by shape memory alloys K. CHATTOPADHYAY, S. LELE and P. RAMACHANDRARAO On Al ₂ M-type phases in splat cooled aluminium alloys T. Z. KATTAMIS and J. C. LECOMTE A novel method for the establishment of solvus surfaces as demonstrated with nickel-base alloys C. E. HOLCOMBE New magnesium hydroxynitrate hydrate binder S. N. GHOSH Thermochemical effects on the formation of Ca ₃ SiO ₅	Letters	
G. A. COOPER and J. BERLIE Comments on "Influence of chemomechanically active fluids on diamond wear during hard rock drilling" K. TAKAHASHI, M. KIMURA and S. HYODO Velocity measurement by ultrasonic fractography for cracks in glassy polymers W. POMPE, HA. BAHR, G. GILLE and W. KREHER Increased fracture toughness of brittle materials by microcracking in an energy dissipative zone at the crack tip D. C. CREAGH and S. H. AYLING The determination of the lattice parameter for GdCo ₂ G. CARTER, M. J. NOBES and J. L. WHITTON The stability of equilibrium surface topography developed by sputtering H. A. MOHAMED Determination of the recovery stresses developed by shape memory alloys K. CHATTOPADHYAY, S. LELE and P. RAMACHANDRARAO On Al ₂ M-type phases in splat cooled aluminium alloys T. Z. KATTAMIS and J. C. LECOMTE A novel method for the establishment of solvus surfaces as demonstrated with nickel-base alloys C. E. HOLCOMBE New magnesium hydroxynitrate hydrate binder S. N. GHOSH Thermochemical effects on the formation of Ca ₃ SiO ₅	Influence of chemomechanically active fluids on diamond wear during hard	2712
Velocity measurement by ultrasonic fractography for cracks in glassy polymers W. POMPE, HA. BAHR, G. GILLE and W. KREHER Increased fracture toughness of brittle materials by microcracking in an energy dissipative zone at the crack tip D. C. CREAGH and S. H. AYLING The determination of the lattice parameter for GdCo ₂ G. CARTER, M. J. NOBES and J. L. WHITTON The stability of equilibrium surface topography developed by sputtering H. A. MOHAMED Determination of the recovery stresses developed by shape memory alloys K. CHATTOPADHYAY, S. LELE and P. RAMACHANDRARAO On Al ₂ M-type phases in splat cooled aluminium alloys T. Z. KATTAMIS and J. C. LECOMTE A novel method for the establishment of solvus surfaces as demonstrated with nickel-base alloys C. E. HOLCOMBE New magnesium hydroxynitrate hydrate binder S. N. GHOSH Thermochemical effects on the formation of Ca ₃ SiO ₅	G. A. COOPER and J. BERLIE Comments on "Influence of chemomechanically active fluids on diamond	2716
Increased fracture toughness of brittle materials by microcracking in an energy dissipative zone at the crack tip D. C. CREAGH and S. H. AYLING The determination of the lattice parameter for GdCo ₂ G. CARTER, M. J. NOBES and J. L. WHITTON The stability of equilibrium surface topography developed by sputtering H. A. MOHAMED Determination of the recovery stresses developed by shape memory alloys K. CHATTOPADHYAY, S. LELE and P. RAMACHANDRARAO On Al ₂ M-type phases in splat cooled aluminium alloys T. Z. KATTAMIS and J. C. LECOMTE A novel method for the establishment of solvus surfaces as demonstrated with nickel-base alloys C. E. HOLCOMBE New magnesium hydroxynitrate hydrate binder S. N. GHOSH Thermochemical effects on the formation of Ca ₃ SiO ₅	Velocity measurement by ultrasonic fractography for cracks in glassy poly-	2718
D. C. CREAGH and S. H. AYLING The determination of the lattice parameter for GdCo ₂ G. CARTER, M. J. NOBES and J. L. WHITTON The stability of equilibrium surface topography developed by sputtering H. A. MOHAMED Determination of the recovery stresses developed by shape memory alloys K. CHATTOPADHYAY, S. LELE and P. RAMACHANDRARAO On Al ₂ M-type phases in splat cooled aluminium alloys T. Z. KATTAMIS and J. C. LECOMTE A novel method for the establishment of solvus surfaces as demonstrated with nickel-base alloys C. E. HOLCOMBE New magnesium hydroxynitrate hydrate binder S. N. GHOSH Thermochemical effects on the formation of Ca ₃ SiO ₅	Increased fracture toughness of brittle materials by microcracking in an	2720
G. CARTER, M. J. NOBES and J. L. WHITTON The stability of equilibrium surface topography developed by sputtering H. A. MOHAMED Determination of the recovery stresses developed by shape memory alloys K. CHATTOPADHYAY, S. LELE and P. RAMACHANDRARAO On Al ₂ M-type phases in splat cooled aluminium alloys T. Z. KATTAMIS and J. C. LECOMTE A novel method for the establishment of solvus surfaces as demonstrated with nickel-base alloys C. E. HOLCOMBE New magnesium hydroxynitrate hydrate binder S. N. GHOSH Thermochemical effects on the formation of Ca ₃ SiO ₅	D. C. CREAGH and S. H. AYLING	2723
H. A. MOHAMED Determination of the recovery stresses developed by shape memory alloys K. CHATTOPADHYAY, S. LELE and P. RAMACHANDRARAO On Al ₂ M-type phases in splat cooled aluminium alloys T. Z. KATTAMIS and J. C. LECOMTE A novel method for the establishment of solvus surfaces as demonstrated with nickel-base alloys C. E. HOLCOMBE New magnesium hydroxynitrate hydrate binder S. N. GHOSH Thermochemical effects on the formation of Ca ₃ SiO ₅	G. CARTER, M. J. NOBES and J. L. WHITTON	2725
On Al ₂ M-type phases in splat cooled aluminium alloys T. Z. KATTAMIS and J. C. LECOMTE A novel method for the establishment of solvus surfaces as demonstrated with nickel-base alloys C. E. HOLCOMBE New magnesium hydroxynitrate hydrate binder S. N. GHOSH Thermochemical effects on the formation of Ca ₃ SiO ₅	H. A. MOHAMED	2728
A novel method for the establishment of solvus surfaces as demonstrated with nickel-base alloys C. E. HOLCOMBE New magnesium hydroxynitrate hydrate binder S. N. GHOSH Thermochemical effects on the formation of Ca ₃ SiO ₅		2730
New magnesium hydroxynitrate hydrate binder S. N. GHOSH Thermochemical effects on the formation of Ca_3SiO_5	A novel method for the establishment of solvus surfaces as demonstrated with	2731
S. N. GHOSH Thermochemical effects on the formation of Ca_3SiO_5		2736
* *	S. N. GHOSH	2739
	· · · · · · · · · · · · · · · · · · ·	2742

Errata

- H. -J. WEISS, J. Mater. Sci. 13 (1978) 1388.
- p. 1388, column 1, line 7 from the bottom should read: would do separately.
- p. 1389, the caption to Fig. 1 should read: . . . and $E_{\rm F}/E_{\rm M}=3$ at pulsating tension, with strain amplitude kept constant.
- p. 1391, the last term in Inequality 10 should be: $N_{Kf}(\sigma_K)$.
- p. 1398, column 2, line 10 from the bottom, replace 95 by 950.

The formula at the bottom of column 2 should read:

$$N_{\rm Ff}\left(0, \frac{\sigma\sigma_{\rm Fu}}{2\nu\sigma_{\rm Fu}-\sigma}\right) < N_{\rm f2}\left(\sigma\right) < N_{\rm Ff}\left(0, \frac{\sigma E_{\rm F}\sigma_{\rm Fu}}{2E\left(\sigma_{\rm Fu}-\sigma_{\rm 0}/\nu\right)-\sigma E_{\rm F}}\right) \quad {\rm and} \quad N_{\rm f1}\left(\sigma\right) < N_{\rm f2}\left(\sigma\right) < N_{\rm f1}\left(\sigma\right) + N_{\rm Ff}\left(0, \frac{\sigma\sigma_{\rm Fu}}{2\nu\sigma_{\rm Fu}-\sigma}\right)$$

Throughout, read E for E_1 .

Technical articles of full page length, or over, appearing in Journal of Materials Science are indexed in British Technology Index, Current Contents, Science Citation Index (USA), and Engineering Index. Journal of Materials Science is also used by Chemical Abstracts, Metal Abstracts, and Physics Abstracts.

^{© 1978} Chapman and Hall Ltd. Typeset by the Alden Press Ltd., London and Northampton, and printed in Great Britain by Whitstable Litho Ltd., Whitstable, Kent.