Solidification During Casting of Metal-Matrix Composites

Prackep Rohatgi and Benjamin Schultz, University of Wisconsin—Milwaukee Näthil Gupta, Polytechnic Institute of New York University April Daoud, Central Metallurgical Research and Development Institute

METAL-MATRIX COMPOSITES (MMC)/ are engineered combinations of two or more materials in which reinforcing phases are dispercord in a metal or an alley. Structurally, cast MMCs consist of continuous or discontinuous Elects (descinated by the subscript f), whiskers (w), or particles (p) in a metal or an alley that solidities in the restricted spaces between the reinforcing phase (or phases) to form the helk. of the motris. There are several cost materials, such as aluminum-silicon alloys and cast from, that exhibit two-phase microstructure in which the volume and shape of the phases are govcreated by phase equilibrie and that here a long history of foundry production. Modern cast MMC's differ from those traditional materials. in that any selected volume, shape, and size of neindocument can be introduced into the matrix. even beyond the permissible limits presented by the phase diagrams.

By controlly controlling thereine, drape, surface properties, solutor fraction, and distribution of the mindocommunication, and distribution of the mindocommunication, controlling the solidification-conditions. MMCs can be synthesized having a talkened set of useful engineering properties. For example, as downton Table 3, combinations of very high specific strongth and specific medicals, beyond those of controllinead monoiditic alloys, are achievable. Table 2 summarises the applications of several community used MMCs, and the properties that make them satisfies its sed the properties that make them satisfies its

their applications. Microstructural design and synthesis procedures have been developed to achieve unique combinations of properties, including improved elevated-temperature and larger strongles, increased damping ability, tailated electrical and thermal combattivities. necleared wear ratio, and targeted coefficients of thermal expansion. These talkned properties provide opportunities for a variety of new applications for MMCs that were out possible using conventional materials. For more information about MMC types and their applications, we the

Table 1 Specific strength and specific modulus of some metal matrices, reinforcements, and metal-matrix composites

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Table 2 Selected potential applications of cast metal-matrix composites

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Solidification Of Metal Matrix Composites

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