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T.J. Watson TMS (The Minerals, Metals & Materials Society), 2001 i
Introduction Metal matrix composites (MMC's) have matured in the past decade as an economically and industrially important class of materials.

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of the potential applications for Al and Ti MMCs and discusses issues involved in the introduction of this relatively new class of composite materials into engine components. The potential for cost savings and performance improvements which may be achieved by the introduction

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metal (Al, Mg, and Cu) matrix filled

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with nanoceramic particles (carbides, oxides, nitrides, and carbon nanotubes) featuring physical and mechanical properties very different from those of the matrix (Riccardo and Maurizio, 2014). The properties that can be improved by nanoparticles include damping, mechanical strength,

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and wear resistance to the base material.

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driveshaft is made of an aluminum matrix reinforced with boron carbide, allowing the critical speed of the driveshaft to be raised by reducing inertia. The MMC driveshaft has become a common modification for racers, allowing the top speed to be increased far beyond the safe

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aluminum driveshaft.

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