

International Journal of

Machining and Machinability of Materials

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Scope of the Journal

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In modern manufacturing, there has been strong renewed interest in high-efficiency machining, while use of advanced materials has increased due to their special mechanical and physical properties. Advanced materials have replaced conventional materials in various fields of application including aeronautical, aerospace, automotive, biomechanical, mechanical and other industries. As a result of these properties and potential applications, there exists an urgent need to understand questions associated with the machinability of these materials. IJMMM addresses both machining and machinability of materials.



Topics covered include:

- Machining processes: turning, drilling, milling, grinding
- Mechanics of cutting, chip formation
- Cutting forces, cutting temperatures
- Cutting tool material, coatings, tool wear
- Surface finish, integrity of surfaces
- Tribology in metal cutting
- Hard turning, minimal lubrication; high speed machining
- Nontraditional machining processes: laser, EDM, ECM, USM, water jet cutting
- Precision machining, micro/nanomachining
- Vibration/acoustic emission techniques
- Machinability of materials: metallic/non-metallic/composite materials
- Design of experiments: Taguchi methods, response surface methodology, etc.
- Machining simulation: FEM models, etc.
- Optimisation: genetic algorithms, neural networks, etc.
- Intelligent machining, integrated manufacturing systems

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