

Faculty Member

Timken Foundation Center for Precision Manufacturing

Contact Information



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Basic Research Efforts

PhD, F AAAS, FASM, FASME s) chanical Engineering of Akron bom 106 C <u>uakron.edu</u> 196 <u>om/site/ tirumalaisrivatsan</u>	 Influence of neat treatment and/or secondary processing on tensile response, cyclic fatigue response and fracture behavior (quasistatic and cyclic) of high strength steels. Influence of secondary processing (Nature of Manufacturing) on microstructural development, mechanical response, properties, deformation and fracture behavior of medium strength and high-strength aluminum alloys. Conjoint influence of nature of primary processing [manufacturing technique used] and secondary processing [heat treatment] on deformation characteristics and fracture behavior of lightweight magnesium alloys. Role of technique of Manufacturing Process used on microstructural development, mechanical properties and failure by fracture behavior of metal-based composite materials.
ts	Applied Research Efforts

Research Interes

- **Processing influences on microst** ٨ of metals, alloys and composite m
- Characterization of microstructur ٨ microstructural features.
- Inter-relationships between nature ۰ processing [manufacturing techn microstructural development, me include properties, and fracture b and structures.
- Role of manufacturing technique the failure and/or fracture behavior of materials and structures.