

Symposium E

Title:

Structure-properties relationship of advanced metallic materials

Scope:

The objective of this Symposium is to discuss the relationships between processing, structure, properties and performance of advanced engineering metallic materials, with emphasis in new fabrication and characterization techniques.

Session topics:

- Techniques for microstructure and properties characterization.
- Fracture mechanics applied to structural integrity.
- Light alloys (Al, Mg, Ti) for automotive and aeronautical applications.
- Recent developments in steels for automotive industry and for gas/oil pipelines.
- Materials to resist fatigue and creep.
- Recent technologies for welding procedures.

Symposium organizers:

Leonardo Barbosa Godefroid, Universidade Federal de Ouro Preto, Brasil

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