Springer

CALL FOR BOOK CHAPTERS

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BOOK TITLE

Metal Additive Manufacturing:
Methods, Materials and Applications

Publisher: Springer Publishing (SCOPUS and Web of Science Indexed)

We are pleased to invite you and your team to contribute **Chapter(s) for the book** to be published by **Springer Publishing.**

Scope of the book:

This book will describe basic, core and advance aspects of metal additive manufacturing (MAM). Different MAM techniques will be discussed in detail one by one. The hybridization of additive manufacturing principles with other technologies such as friction based additive manufacturing, cold spray based additive manufacturing, etc. will be covered in detail. Various aspects of MAM such as microstructural evolution, mechanical characterization, process modelling and quality control, design and modelling will be suitably discussed. Relevant case studies will be included to enhance the technical quality of the book. Recent advancements and applications of MAM in different sectors will be addressed.

Topics of interest include, but are not limited to the following:

Part-A (Conventional MAM Techniques)

- Introduction to additive manufacturing
- Overview on metal additive manufacturing processes
- Powder bed fusion-based MAM processes
- Directed energy deposition-based MAM processes
- Binder jetting-based MAM processes
- Sheet lamination-based MAM processes
- Materials for MAM
- Microstructural evolution and mechanical properties of parts made via MAM
- Defects associated with MAM and post processing techniques
- Case studies related to MAM techniques

Part-B (Hybrid MAM Techniques)

- Overview on hybrid MAM techniques
- Cold spray-based MAM techniques
- Ultrasonic additive manufacturing

Part-B (continued)

- Friction based MAM techniques
- Wire arc additive manufacturing
- Case studies related to hybrid MAM Techniques

Part- C (Process Modelling)

- Process monitoring and quality control of MAM techniques
- Design for MAM
- Modelling and simulation of MAM
- Thermal analysis of MAM techniques

Part- D (Trends, applications and future scope of MAM)

- Conventional processes vs MAM techniques
- Business market and economic analysis of MAM
- Applications of MAM
- Conclusion and future research areas of MAM

You can propose any other topic also from your research/experience, which can be covered under the book title.

Important deadlines and information

Proposal Submission Deadline	**25 March 2023**
Proposal Acceptance Decision	**31 March 2023**
Full Chapter Submission Deadline	**07 May 2023**
Review Reports to Contributors	**15 May 2023**
Revised Full Chapter Submission	**30 May 2023**
Publication (In press)	**June 2023**

Note: **Plagiarism of the chapter should be less than 10%.** The contribution **must be original and unpublished work**, not submitted for publication anywhere. Experimental work and case-studies with novel techniques are more likely for acceptance.

Editors:

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The Proposal (Minimum 1-2 pages) Title, Authors with affiliation, Table of Contents, Extended Abstract, Keywords, Nature of Work-Review/Research should be forwarded as an email to editors.springerpublishing@gmail.com or rathee8@gmail.com.

For any Query: WhatsApp at +91-8076036082.

- ***The Chapter will be reviewed by a minimum of two experts in the respective field.***
- ***Your suggestions to modify the title of chapter(s) according to your expertise and interest in the area of MAM are welcome.***
- **If you are not from the respective field, kindly share with your colleagues.**