

## Process Parameters

### Laser

- Power
- Wavelength
- Spot-size
- Shape
- Pulse duration
- Pulse frequency

⋮

### Scanning

- Scan speed
- Hatch spacing
- Scan path/pattern

⋮

### Powder

- Particle size and distribution
- Shape
- Flowability
- Layer thickness
- Spreading speed

⋮

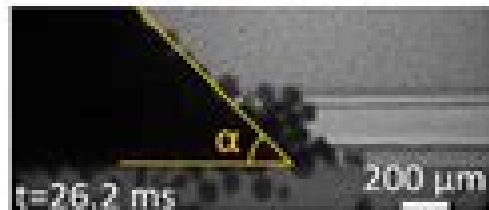
### Process Chamber

- Atmospheric gas content
- Oxygen levels
- Chamber pressure
- Base-preheating
- Purging gas velocity

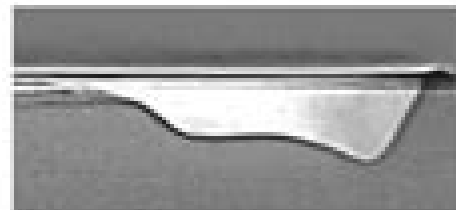
⋮

and many more...

## Process Mechanisms



Powder spreading



Melting

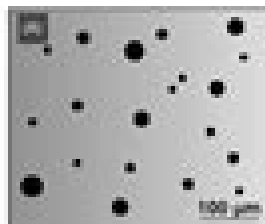


Spattering

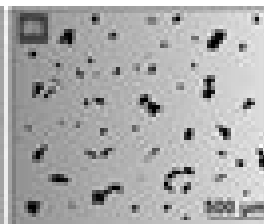


Vapor plume

## Defects



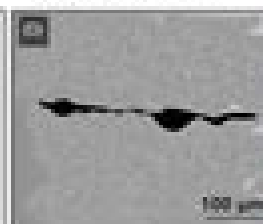
Gas/keyhole pores



Lack of fusion  
(incomplete or partial melting)



Cracks



Delamination



Distortion



# Materials Processing Defects

**M. Predeleanu, S.K. Ghosh**



## **Materials Processing Defects:**

**Advanced Methods in Materials Processing Defects** M. Predeleanu, P. Gilormini, 1997 *Materials Processing Defects* M. Predeleanu, S.K. Ghosh, 1995-02-24 The technological field of defects and more appropriately avoidance of them is very current in perhaps all sectors of the manufacturing industry This is particularly important to reduce minimize waste everywhere to address lean production procedures The recent advances in finite plasticity and viscoplasticity damage modelling instability theories fracture modelling computer numerical techniques and process simulation etc offer new approaches and tools for defect prediction analyses and guidelines for designing components to be manufactured by traditional and emerging process technologies This volume contains contributions from well known researchers and experts in the field presenting an up to date overview of advances in this area Subjects covered include micro and macro scale observation of defects localization and instability analysis damage modelling and fracture criteria defect prediction methods design considerations to avoid defects

**Proceedings of the Second International Conference on Material Processing Defects** International Conference on Material Processing Defects (2, 1992, Siegburg), 1992 Advanced Methods in Materials Processing Defects M. Predeleanu, P. Gilormini, 1997-06-18 This collection of papers focus on advanced methods for predicting and avoiding the occurrence of defects in manufactured products A new feature is included namely the influence of the processing induced defects on the integrity of structures The following topics are developed damage modeling damage evaluation and rupture strain localization and instability analysis formability characterization prediction of shape inaccuracies influence of defects on structural integrity The main manufacturing operations are covered and various materials are examined such as new and conventional metal alloys ceramics polymers and composites

*Special issue on materials processing defects*, 2008 Computational Methods for Predicting Material Processing Defects M. Predeleanu, 2014-06-28 The papers in this book deal with computational methods for predicting material processing defects Using recent advances in finite strain plasticity and viscoplasticity damage modelling bifurcation and instability theory fracture mechanics and computer numerical techniques new approaches to mechanical defect analysis are proposed Appropriate methods for explaining and avoiding the defects leading to fracture high porosity strain localization or undesirable geometrical imperfections are presented In addition some papers are devoted to new formulations and new calculation algorithms to be used for solving the forming problems Finally two papers deal with physical description of defects occurring in forming and cutting operations focusing on the academic and practical interest of these topics This is the first book to deal with the prediction of defects occurring in material forming processes it contains much of interest from both a theoretical and a practical viewpoint

*Advanced methods in materials processing defects : contributions to the Third International Conference on Materials Processing Defects, July 1-3, 1997, Cachan, France* M. Predeleanu, P. Gilormini, 1997 Advances in Finite Deformation Problems in Materials Processing and Structures American Society of

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