

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

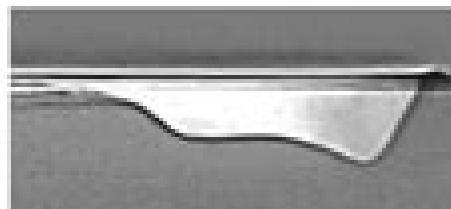
:

and many more...

Process Mechanisms



Powder spreading



Melting

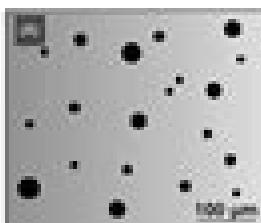


Spattering

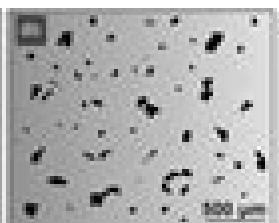


Vapor plume

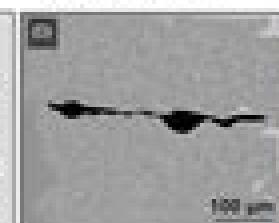
Defects



Gas/keyhole pores



Lack of fusion
(incomplete or partial melting)



Cracks



Delamination



Distortion

Materials Processing Defects

M Mark

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.

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Society of Mechanical Engineers. Winter Annual Meeting,1991 **Material Processing Defects** ,1992 **Powder Metallurgy and Particulate Materials Processing** Randall M. German,2005 Engineering Materials and Processing Methods ,1930 Issues for 1929 include section Contents noted 1929 1939 called Metallurgical abstracts Jan 1940 Sept 1945 called Engineering digest Oct 1945 called Materials beginning in 1942 included in the complete index to the periodical Characterization of Defects in Materials Richard W. Siegel,Robert Sinclair,Julia Randall Weertman,1987 **Prediction of Defects in Material Processing** M. Predeleanu,2004 Defects and Diffusion in Semiconductors X David Fisher,2008-03-18 An Annual Retrospective X *Ceramic Industry* ,1928 *International Conference on Material Processing Defects 2, Siegburg 1992* S.K. Ghosh,M. Predeleanu,GKN Automotive,LMT Cachan,1992 **Materials Processing in the Computer Age** Vaughan R. Voller,Marian Stachowicz,Brian G. Thomas,1991 *Concise Encyclopedia of Advanced Ceramic Materials* R. J. Brook,1991 Hardbound Advanced ceramics cover a wide range of materials which are ceramic by nature but have been developed in response to specific requirements This encyclopedia collects together 137 articles in order to provide an up to date account of the advanced ceramic field Some articles are drawn from the acclaimed Encyclopedia of Materials Science and Engineering often revised and others have been newly commissioned The Concise Encyclopedia of Advanced Ceramic Materials aims to provide a comprehensive selection of accessible articles which act as an authoritative guide to the subject The format is designed to help the readers form opinions on a particular subject Arranged alphabetically with a broad subject range the articles are diverse in character and style thereby stimulating further discussion Topics covered include survey articles on glass hot pressing insulators powders and many are concerned with specific chemical sy Constitutive Equations for Engineering Materials: Elasticity and modeling Wai-Fah Chen,1994 **Mechanical Behaviour of Materials-VI** Masahiro Jōno,1992 Significant progress in the science and technology of the mechanical behaviour of materials has been made in recent years The greatest strides forward have occurred in the field of advanced materials with high performance such as ceramics composite materials and intermetallic compounds The Sixth International Conference on Mechanical Behaviour of Materials ICM 6 taking place in Kyoto Japan 29 July 2 August 1991 addressed these issues In commemorating the fortieth anniversary of the Japan Society of Materials Science organised by the Foundation for Advancement of International Science and supported by the Science Council of Japan the information provided in these proceedings reflects the international nature of the meeting It provides a valuable account of recent developments and problems in the field of mechanical behaviour of materials

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