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International Conference on Superplastic Forming of Advanced Metallic Materials aims to bring together leading academic scientists, researchers and research scholars to exchange and share their experiences and research results on all aspects of Superplastic Forming of Advanced Metallic Materials. It also provides a premier interdisciplinary platform for researchers, practitioners and educators to present and discuss the most recent innovations, trends, and concerns as well as practical ...

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International Conference on Superplastic Forming of Advanced Metallic Materials scheduled on October 08-09, 2020 at New York, United States is for the researchers, scientists, scholars, engineers, academic, scientific and university practitioners to present research activities that might want to attend events, meetings, seminars, congresses, workshops, summit, and

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## **International Conference on Superplastic Forming of ...**

Superplastic forming is an advanced metalworking process that can form high-quality, complex components in one operation. Simplifying traditional assembly methods also leads to more lightweight components in such areas as automotive and aerospace engineering.

## **Superplastic forming of advanced metallic materials ...**

Metal forming technology: breaking the mould with superplastic forming Metal forming is one of the most widely used manufacturing processes in the world. This age old process has undergone numerous technological developments in recent years, yet still faces a number of key challenges, particularly when it comes to hot forming.

## **Metal Forming Technology - Breaking the mould with ...**

Superplastic Forming of Advanced Metallic Materials. Superplastic Forming of Advanced Metallic Materials. Methods and Applications. Woodhead Publishing Series in Metals and Surface Engineering. 2011, Pages 272-303. 12 - Quick Plastic Forming of aluminium alloys. Author links open overlay panel P.E. Krajewski J.G. Schroth.

## **Quick Plastic Forming of aluminium alloys - ScienceDirect**

The following processes are considered advanced forming technologies: superplastic forming, electromagnetic forming, age forming, warm forming, and hydroforming. They are not necessarily new but can be regarded as emerging technologies with respect to their application to aluminum alloys.

## **Innovative Forming and Fabrication Technologies: New ...**

Contributor contact details Preface Part I: Superplastic forming methods Chapter 1: Metals for superplastic forming Abstract: 1.1 Introduction 1.2 Historical aspects of superplasticity 1.3 Types of superplastic materials 1.4 Grain refinement 1.5 Processing of commercially significant alloys to develop superplastic microstructures 1.6 High ...

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## **Superplastic forming of advanced metallic materials ...**

In materials science, superplasticity is a state in which solid crystalline material is deformed well beyond its usual breaking point, usually over about 600% during tensile deformation. Such a state is usually achieved at high homologous temperature. Examples of superplastic materials are some fine-grained metals and ceramics.

## **Superplasticity - Wikipedia**

However, as automakers develop increasingly advanced components, aluminum sheet is challenged compared to steel due to its lower formability. The superplastic forming process is a potential solution as it provides the ability to produce deep drawn, thin-walled aluminum sheet components.

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