

WELDING CUTTING

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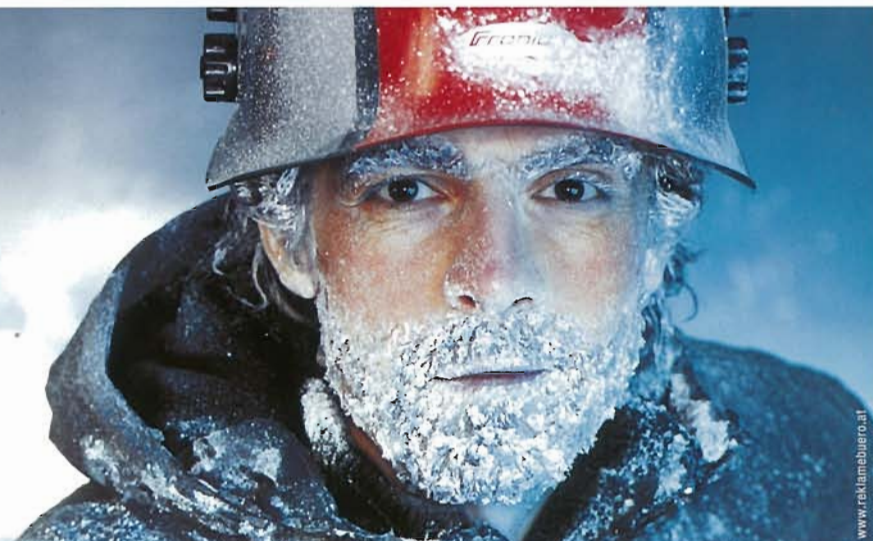
+++ EuroBLECH 2008 – the world exhibition for sheet metal working +++ Welding and joining developments in the aerospace industry +++ A computational tool for the control of arc welding processes +++

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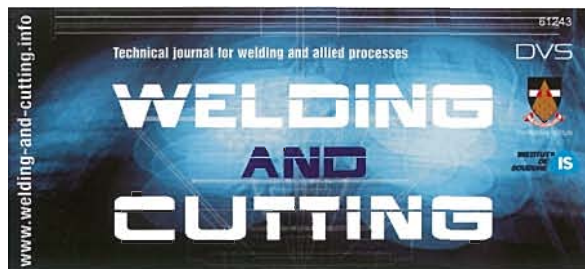
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Technical journal for welding and allied processes of the **DVS – German Welding Society**, Düsseldorf, the **Professional Division of The Welding Institute**, Cambridge, and the **Institut de Soudure**, Paris

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Books

Design, fabrication and economy of welded structures

Edited by Karoly Jarmai and Jozsef Farkas. 580 pages. Horwood Publishing, Chichester/UK 2008. Price £ 36.- (approx. Euro 45.-).

The aim of the "International Conference on Design, Fabrication and Economy of Welded Structures" held on 24 to 26 April 2008 in Miskolc, Hungary, was to bring together academics, researchers and practitioners in the broad fields of welded structures, structural mechanics, associated computation and structural engineering. Collecting, discussing and reviewing recent achievements in the advancement of knowledge and understanding in these areas, the conference shared the latest developments and addressed the challenges for the present and future. The proceedings of the conference contain 69 papers, covering the fields of different materials and fatigue of welded joints, thin-walled structures, tubular structures, frames, plates and shells. They also incorporate special optimisation problems and applied mechanics and thus provide an important

reference for civil and mechanical engineers, architects, designers and fabricators.

The history of the theory of structures

By Karl-Eugen Kurrer. 848 pages with numerous figures. Ernst & Sohn, Berlin/Germany 2008. Price Euro 119.-.

What do today's structural engineers know about the origins of structural theory? When and how did structural calculations start to be used in the design process? Starting with a description of the strength studies carried out by Leonardo and Galilei, the book examines the development of individual structural techniques and the formation of structural theory as a discipline. It is the first to offer an overview of the development from conventional structural theory to structural and computational mechanics during the last century. Brief summaries of the development of common calculation methods, supported by historic sketches, provide insights into the history of structural mechanics and present-day calculation techniques.

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