

from TOP Technology and Operational Practice

244 STEEL GRIPS meets ThyssenKrupp AG

**Kerstin Garbracht talking to
Prof. Dr.-Ing. Ekkehard D. Schulz**

Michael Mehrkens and Jürgen Fröber:

249 Modern multi-phase steels in the BIW of the Porsche Cayenne

Robert Schulz:

252 atlas spaceframe - A common research project of the Salzgitter Group and the Wilhelm Karmann Company

Volker Flaxa and Jody Shaw:

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262 METEC 2003 - highlighting metallurgical technology

Cars - total fascination for everybody!

Thanks to the sophisticated work performed in cooperation of the steel producers and the research



and development departments of automobile manufacturers, up-to-date cars keep on attracting people.



from R&D Research and Development

271 STEEL VIPs - Kerstin Garbracht presenting: Prof. Dr.-Ing. Klaus Schwerdtfeger

Patrick Van Hecke and Jan Penning:

273 TRIP-effects in austempered ductile irons

*Khaled Mohamed Ibrahim, Hoda Nasr El-din,
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278 Wear resistance of cold rolled ADI

Andreas Weiß, Piotr R. Scheller and Heiner Gutte:

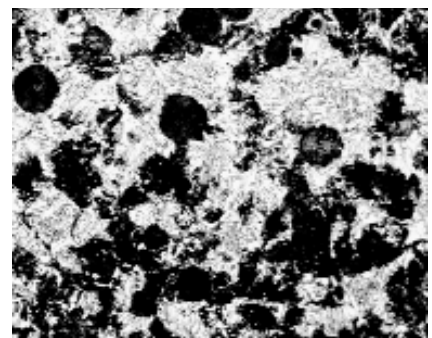
284 TRIP-effect and deformation-induced martensite formation in the metastable austenitic steel X6CrNiTi18-10

*Roumen Petrov, Leo Kestens, Włodzimierz Kaluba
and Yvan Houbaert:*

289 Recrystallization and austenite formation in a cold rolled TRIP steel during ultra fast heating

The hidden properties allowing passive safety are, e.g., due to modern steel grades, such as TRIP. Latest design concepts making use of the best suited material for the individual purpose go back to the beginning of automobile construction.

The potential of the TRIP effect has, so far, not been fully exploited. New results of the latest investigations open up further possibilities as far as the use of materials is concerned



Light-weight material, strength as high as required and simultaneously, good formability as demanded by the manufacturer, total recyclability as postulated by the environment - a high challenge for materials



Steels are a good choice for many applications. Combining their favourable properties with those of other materials may generate an unbeatable mix.



...made of steel, erasing unpleasant smells from human skin - does this really work? Undoubtedly! But how does it work? Who can give a convincing explanation?



Not quite a world of steel but of cast metal. CastArt4 presented interesting pieces of art made of cast iron, steel, bronze, aluminium and silver

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A Bit of Art

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