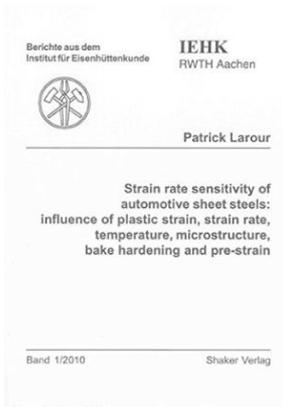


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## STRAIN RATE SENSITIVITY OF AUTOMOTIVE SHEET STEELS: INFLUENCE OF PLASTIC STRAIN, STRAIN RATE, TEMPERATURE, MICROSTRUCTURE, BAKE HARDENING AND PRE-STRAIN



Shaker Verlag Jun 2010, 2010. Buch. Book Condition: Neu. 21x14.8x cm. Neuware - This experimental work shows the different parameters influencing the strain rate sensitivity behaviour of automotive sheet steel grades in crash conditions. Most investigations have been performed in the strain rate range [10-3-200s<sup>-1</sup>] and temperature range [233-373K] with servohydraulic tensile testing machines. Additional Split-Hopkinson bar testing results up to 103s<sup>-1</sup> have also been included at room temperature. The focus has been laid on the 'apparent' strain rate sensitivity,...

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