
Interstitial Free Steel Sheet Processing

physical metallurgy and drawability of extra deep drawing ... - 7 physical metallurgy and drawability of extra deep drawing and interstitial free steels kumkum banerjee research and development department, tata steel ltd., jamshedpur, **formability of galvanized interstitial-free steel sheets** - interstitial free (if) steel sheets has been one of the key issues in the automotive industry's transition to more corrosion resistance vehicle parts. in the present work, formability of hot dip galvanized interstitial free (if) steel sheets **cold work embrittlement of interstitial-free steels** - project fact sheet cold work embrittlement of interstitial-free steels cold work embrittlement (cwe) of interstitial-free (if) steels research will improve the performance of if steel grades in the production of steel parts steel and parts manufacturers need to determine the sensitivity of if steels to cwe in order to reduce the occurrence of fracture during secondary deformation and to ...

influence of microalloying elements on recrystallization ... - this sense, the work carried out with three different interstitial free (if) and interstitial free high-strength (ifhs) steel grades allows us to conclude that the increase of microalloying additions delays recrystallization kinetics. **frictional angular rolling extrusion of interstitial-free ...** - interstitial-free steel sheets were processed using a novel severe plastic deformation technique - frictional angular rolling extrusion (fare), in order to produce ultrafine grained structures. the deformation was carried out at room temperature and individual sheet specimens were repeatedly processed to various passes. an overall grain size of 200nm was achieved after eight passes (or an ... **effect of**

projectile nose shape on ballistic resistance of ... - such the projectile can be regarded as rigid and the target sheets were of interstitial-free (if) steel. the mass ratio (projectile mass/steel sheet mass) and the ratio between the span of the steel sheet and the diameter of the projectile were kept constant, equal to 0.38 and 3.85 respectively. to define the thermoviscoplastic behaviour of the target material, the rusinek-klepaczko (rk ... **review mechanisms and modelling of microstructure/texture ...** - microstructure evolution in sheet steel and then describes a computer model that has been developed to make quantitative predictions about the effect of chemistry and process variables for one particular grade, namely titanium-stabilised interstitial-free steels. 2. annealing phenomena in cold rolled steel the basic features of recovery, recrystallisation and grain growth in steels are ... **microstructures and mechanical properties of ultra low ...** - an ultra low carbon interstitial free (if) steel was severely deformed by the six-layer stack accumulative roll-bonding (arb) process for improvement of the mechanical properties-received material with 1mm in thickness showed a recrystallization structure with average grain **effect of projectile nose shape on ballistic resistance of ...** - of projectile nose shape on ballistic resistance of interstitial-free steel sheets - international journal of impact engineering - vol. 79, p.83-94 - 2015 any correspondence concerning this service should be sent to the repository **experimental analysis and theoretical predictions of the ...** - *e-mail:

lucianoireira@metalimvr.uff experimental analysis and theoretical predictions of the limit strains of a hot-dip galvanized interstitial-free steel sheet **dynamic measurement of recovery and recrystallisation in ...** - interstitial free (if) steel grades are used in many applications as they offer excellent formability and resistance to thinning, due to their favourable microstructures of uniform fine ferrite grains. **effect of projectile nose shape on ballistic resistance of ...** - such the projectile can be regarded as rigid and the target sheets were of interstitial-free (if) steel. the mass ratio (projectile mass/steel sheet mass) and the ratio between the span of the steel sheet and the diameter of the projectile were kept constant, equal to 0.38 and 3.85 respectively. to define the thermoviscoplastic behaviour of the target material, the rusinek-klepaczko (rk ... **on the micromechanism of fatigue damage in an interstitial ...** - on the micromechanism of fatigue damage in an interstitial-free steel sheet shrabani majumdar, d. bhattacharjee, and k.k. ray the micromechanism of fatigue damage in an interstitial-free (if) steel sheet has been studied

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