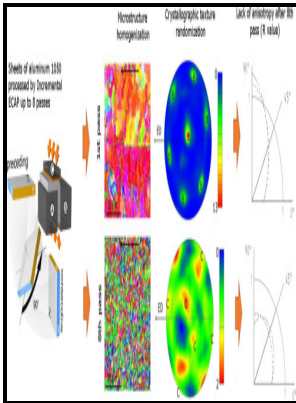


Crystallographic textures and the properties of sheet metals.

University of Birmingham - Dr.R.Narayanasamy



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Crystallographic Texture

For many castings, which have nearly random initial textures, basal slip and $\{10\}$. It is not uncommon to have high sheet resistance and inferior thickness uniformity of the film because of the departure from the ideal grain orientation ratios. Figures 2 b and c show the intensities of all diffracting planes with respect to RD and TD of the sheet.

Novel ultrasonic measurements of crystallographic texture in sheet metals to obtain industrially relevant formability information

Ultrasonic techniques have been developed by previous workers that measure three of the ODCs that describe the orientation probability distribution function for an aggregate of cubic crystallites.

Dr.R.Narayanasamy

Deformation textures are measured in terms of pole figures and orientation distribution function ODF plots obtained through electron backscatter diffraction EBSD. Practical approaches to control the texture have been developed and have been successfully used in the products obtained from industrial-scale ingots.

Novel ultrasonic measurements of crystallographic texture in sheet metals to obtain industrially relevant formability information

Annealing textures and microstructures are interpreted by comparing experimental results with simulated results obtained with recrystallization models.

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