

Internal Webinar

On simulation of complex plastic flows in metal sliding and cutting

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Until 2012, the origins of complex plastic flows in metal manufacturing processes like metal sliding and cutting at the hundred microns to several mm length-scale were a source of mystery and speculation. The advent of in-situ imaging changed the picture and brought to light the microstructural origins of these flows. This had a severe repercussion on the widely used finite element techniques that were used to simulate metal sliding and cutting. This talk will feature what it took to simulate these flows at this length-scale: the issues faced, and the solutions arrived at.

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11:30 AM