

Grain Boundary Transformations in Deformed Nanocrystalline Materials: A Brief Review

S.V. Bobylev

¹[Institute of Problems of Mechanical Engineering, Russian Academy of Sciences, St. Petersburg 199178, Russia](#)

²[Peter the Great St. Petersburg Polytechnic University, St. Petersburg 195251, Russia](#)

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Corresponding author: [S.V. Bobylev](#)

Abstract. The theoretical models describing various grain boundary transformations acting in plastically deformed nanocrystalline materials are briefly reviewed. We demonstrate the important role of grain boundaries and their transformations in the process of plastic deformation of nanocrystalline materials. Theoretical results are discussed and compared with available data of experimental studies and computer simulations.

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