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Department of Mechanical Engineering, Stanford UniversityVasily V Bulatov, Lawrence Livermore National LaboratoryEducation:B. Sc., theoretical physics, Moscow Physical Engineering Inst. (1979)Ph. D., materials physics, USSR Academy of Sciences (1986)Appointments: Senior scientist, Inst. of Chemical Physics, Moscow (1997)Research scientist, Massachusetts Institute of Technology (1990-1998)Visiting scientist, Harvard University (1996-1997)Staff scientist, senior scientist, Lawrence Livermore National Laboratory (1999-present)Awards: William and Mary Greve Foundation fellow (1990), Alcoa Foundation Award (1996), UK Institute of Physics fellow (2001)Wei Cai, Department of Mechanical Engineering, Stanford UniversityEducation:B.Sc., optoelectronics, Huazhong University, PRC (1995)Ph. D., nuclear engineering, Massachusetts Institute of Technology (2001)Appointments:Lawrence Fellow, Lawrence Livermore National Laboratory (2001-2004)Assistant Professor, Stanford University (2004-present)Awards:Manson Benedict Fellow, Department of Nuclear Engineering, MIT (1999)Graduate Student Award, Materials Research Society (2000)The Lawrence Fellowship, Lawrence Livermore National Laboratory (2001)Presidential Early Career Award for Scientists and Engineers (2004)Frederick E. Terman Fellowship, Stanford University (2004-2007)"

In the past twenty years new experimental approaches improved models and progress in simulation techniques have brought new insights into longstanding issues concerning dislocation based plasticity in crystalline materials during this period three dimensional dislocation dynamics dd simulations appeared and reached maturity their major objective is to contribute to the multiscale

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However this disparity can be attributed to the fact that murphy et al report the relative ordering of the dislocation energies at a distance 40 Ã¥ from the dislocation line in atomistic simulations the dislocation energy as a function of radius is e t o t e c o r e k b 2 l n r r c o r e at large distances from the dislocation line

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This chapter introduces visualization programs and analysis tools that have been developed for working with the output of classical molecular dynamics and other atomistic simulation models basic analysis techniques relevant for nanomechanics problems are described which help to reveal structural phases defects and local deformations in. The plasticity of the fluorite structure in uo 2 is investigated with molecular dynamics simulation and empirical potential the stacking fault energies and the dislocation core structures with burgers vector a 2 1 1 0 are systematically calculated all dislocation core structures show a significant increase of the oxygen sub lattice disorder at temperatures higher than 1500 k.

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Abstract continuum dislocation theory cdt allows the consideration of dislocation ensembles by introducing the dislocation density tensor though the kinematics of geometrically linear cdt are well established the closure of governing field equations is not finished yet. Numerical simulations of crystal defects are necessarily restricted to finite putational domains supplying artificial boundary conditions that emulate the effect of embedding the defect in an effectively infinite crystalline environment this work develops a rigorous framework within which the accuracy of different types of boundary conditions can be precisely assessed. The conference series started on june 2000 at the national institute of standards and technology md usa since then dislocations conferences were held at la colle sur loup france in 2004 hong kong in 2008 budapest hungary in 2012 and at west lafayette in usa on 2016. Covid 19 resources reliable information about the coronavirus covid 19 is available from the world health organization current situation international travel numerous and frequently updated resource results are available from this worldcat search oclc s webjunction has pulled together information and resources to assist library staff as they consider how to handle coronavirus.

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