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## **Computer Simulation Of Thin Nickel**

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Galashev. a, \* and V. A. Polukhin. b. a.

Institute of Industrial Ecology, Ural Br

anch of the Russian Academy of

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Single Layer simulations are used to

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strengthening mechanisms at the nano scale. The simulation shows the mechanisms responsible for the differences in hardness . with varying sample thicknesses from 12.8, 8, 6, and 4 nm.

## **Computer Simulation Of Thin Nickel Films On Single Layer**

The energy, mechanical, and transport properties of nickel films on a single-layer graphene sheet in the temperature range  $300 \text{ K} \leq T \leq 3300 \text{ K}$  have been investigated using the molecular dynamics method. The stresses generated in the plane of the metallic film are significantly enhanced upon deposition of another nickel film on the reverse side of the graphene sheet.

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Current experiments suggest that mechanical properties of thin films are different at thicknesses less than 100 nm. In this study, embedded atom

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method computer simulations are used to examine the differences in strengthening mechanisms at the nano scale. The simulation shows the mechanisms responsible for the differences in hardness . with varying sample thicknesses from 12.8, 8, 6, and 4 nm.

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The concentration profiles of thin-film Pt/bulk Ni coatings annealed at 1150, 1250 and 1300°C for different time were measured by means of electron probe microanalysis. The corresponding interdiffusion coefficients were then determined using the thin-film solution.

## **Experimental investigation and computer simulation of ...**

As seen in Fig. 1d, surface energy of the liquid and amorphous Ni thin film increases with temperature, ranging from 1.0 J/m<sup>2</sup> to 3.0 J/m<sup>2</sup>, which agrees well with computer simulations (around 2.0 J/m<sup>2</sup>) and experiments (around 2.5 J/m<sup>2</sup>) for crystalline Ni (see and references therein).

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## **Molecular simulation of freestanding amorphous nickel thin**

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Multi-scale computer simulation technique is applied to the study of the dislocation behavior in nickel base superalloys. The keys of this simulation are the modeling of the interactions of dislocations with  $\gamma'$  precipitates, and the treatment of complicated behavior of dislocations in complex microstructure of nickel base superalloy.

## **Multi-scale computer simulation of dislocation motion in ...**

This article represents the results of studies of the drawing thin wire from the alloy Pd-5Ni process. The studies used the software developed by the authors using the methods of calculating the drawing process and the computer model implemented in the DEFORM 3D software package. By way of calculation, a drawing route was determined, including 14 transitions, and the efforts of deforming the ...

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### **Computer Simulation and Analysis of the Parameters of the ...**

After simulation is being performed several deformation mechanisms, such as pile-up of dislocation at the interface, edge dislocation slip lines are observed. Most interestingly, the underlying copper films or substrates are significantly strengthened by thin nickel coatings. The strengthening effect is more pronounced at a low temperature.

### **Nano-Indentation of Copper - Nickel thin films -A ...**

The behavior of a nickel film on two-layer graphene in the temperature range  $300 \text{ K} \leq T \leq 3300 \text{ K}$  has been investigated using the molecular dynamics method. The kinetic, structural, and mechanical properties of this film have been compared with the corresponding characteristics of a similar nickel film on single-layer graphene. It has been shown that the second layer of heated graphene plays



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## **Computer simulation of heating of nickel films on two ...**

indentation of thin copper films with nickel coatings. After simulation is being performed several deformation mechanisms, such as pile-up of dislocation at the interface, edge dislocation slip lines are observed. Most interestingly, the underlying copper films or substrates are significantly strengthened by thin nickel coatings.

## **Nano-Indentation of Copper Nickel thin films -A Molecular ...**

Dewetting dynamics of the nickel thin film on the alpha-quartz substrate is closely investigated by molecular dynamics simulation. Morphology after the spontaneous dewetting of thin films changes from multi-droplets, single-droplet and cylindrical structure as the film thickness increases.

## **Dewetting dynamics of nickel thin**

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## **film on alpha-quartz ...**

(1983). Computer simulation of  $\{011\}$  tilt grain boundaries in nickel oxide. Philosophical Magazine A: Vol. 48, No. 1, pp. 155-162.

## **Computer simulation of $\{011\}$ tilt grain boundaries in ...**

The simulations of the materials in the first and final processes illustrated that the steel substrate and the nickel coating were simultaneously deformed and yielded in the ... Improved Simulation of Thin-Sheet Metal Forming Using LS-DYNA3D ... G. Y., 1998, Computer Simulation and Application of Stamping Process for Thin Plate (in Chinese ...

## **Numerical Analysis of Electrodeposited Nickel Coating in**

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Thin film structure. Figure 1 shows the film density, deposition rate and surface roughness of Ni films deposited by HiPIMS and dcMS at tilt angles of  $0^\circ$ ,  $35^\circ$

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and  $70^\circ$ . Both methods result in similar film densities at  $0^\circ$  and  $35^\circ$  (8.90 and 8.87 g/cm<sup>3</sup> respectively). The bulk density of nickel at room temperature is 8.902 g/cm<sup>3</sup>. Increasing the tilt angle to  $70^\circ$  leads to a drop in density ...

## **Oblique angle deposition of nickel thin films by high ...**

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