

New approach for describing optical properties of nanocomposite thin films

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During the report I'll tell about the theoretical approach based on effective susceptibility concept for calculation of optical properties of nanocomposite thin films with metallic nanoinclusions. The issue of plasmonic resonances in nanocomposite thin films will be discussed. The dependence of absorption spectrum on morphology of films will be demonstrated. The possibility of configurational resonances will be shown. The problems of nanocomposite thin films optimization will be considered.

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