

عنوان مقاله:

On the Effect of Scattering on the Performance of Carbon Nanotube Field-Effect Transistors

محل انتشار:

چهاردهمین کنفرانس مهندسی برق ایران (سال: 1385)

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خلاصه مقاله:

Based on the non-equilibrium Green's function formalism the performance of carbon nanotube eld-effect transistors has been studied. The effects of elastic and inelastic scattering on the device performance have been investigated. The results indicate that elastic scattering has a more detrimental effect on the device characteristics than inelastic scattering. Only for short devices the performance is not affected because of the long mean free path for elastic scattering.

کلمات کلیدی:

لینک ثابت مقاله در پایگاه سیویلیکا:

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