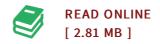


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An Investigation of c-axis Charge Transport in Double Layer Cuprate

By Md. Borhan Uddin

LAP Lambert Academic Publishing Jan 2014, 2014. Taschenbuch. Book Condition: Neu. 220x150x5 mm. This item is printed on demand - Print on Demand Neuware - In this book we have studied the out-of-plane, c-axis resistivity, c(T), of Ca doped Y(Ca)Ba2Cu3O7- high-Tc superconductors (cuprates). Our aim was to model the c-axis resistivity by considering the full impact of the pseudogap (PG) in the electronic density of states (EDOS) in cuprates and to understand the role of the k (wave vector) on hopping integral along the c-direction. We have used the formalism developed by T. Xiang et al. (Phys. Rev. B 73, 134510 (2006)) to fit the experimental resistivity data for high quality single crystals of Y(Ca)Ba2Cu3O7- over a wide range of hole content in the CuO2 plane, p. We have found systematic behavior of maximum pseudogap energy scale,, with doping. It is also found that the coefficient, c, determining the extent of linearity of c(T) is also strongly p-dependent. The analysis also reveals that the formalism developed by T. Xiang et al., fails to produce reliable estimates of and c for the overdoped compounds. The extrapolated values of (p) tends to vanish at p ~ 0.2. We have discussed the ...



Reviews

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