



## AN INVESTIGATION OF C-AXIS CHARGE TRANSPORT IN DOUBLE LAYER CUPRATE



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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  $Y(Ca)Ba_2Cu_3O_{7-x}$  high- $T_c$  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  $Y(Ca)Ba_2Cu_3O_{7-x}$  over a wide range of hole content in the  $CuO_2$  plane,  $p$ . We have found systematic behavior of maximum pseudogap energy scale,  $\Delta$ , 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  $\Delta$  and  $c$  for the overdoped compounds. The extrapolated values of  $\Delta$  tends to vanish at  $p \sim 0.2$ . We have discussed the various features of the analysis in detail in this monograph. 76 pp. Englisch.



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