

Preface to the Second Edition

I am thankful to the readers for the interest and appreciation offered for this book. The book has been revised and more new additions have been made. These include film/substrate lattice matching and buffer layer considerations in HTSC films, “brick-wall” microstructure in epitaxial YBCO films, abstracts of author’s papers, Hubbard model and band structure, electronic structure of CuO_2 layer, phase-diagram (T_c vs hole concentration), Is the coupling s-wave or d-wave in HTSCs?, scenario of theories, arguments against applicability of BCS theory to HTSCs, identification of non-phonon mechanism and lastly, three appendices.

I am thankful to the scientists and researchers whose papers have been consulted for the new additions. I am grateful to Dr. Claus Ascheron (Heidelberg) for enabling the chance to make new additions.

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Ajay Kumar Saxena



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