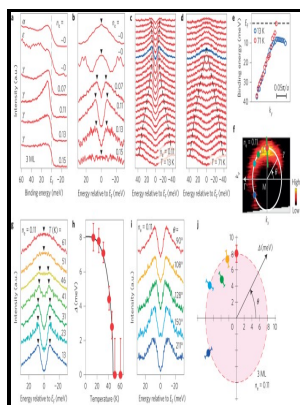


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Physics of high

Pouchard, Physica C, 192, 425 1991. Hong, in , 2017 13. In order to enhance the understanding of the mechanisms of superconductivity at high temperatures, this volume is divided into theoretical and experimental parts.

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In particular, superconducting power cables seem very promising in those densely populated areas in which high-voltage conventional cables could be replaced by medium-voltage superconducting cables, with the consequent elimination of the substations connected to the cable itself.

Complex Phase Separation in Oxygen

The contributions to this volume present a theoretical and experimental overview of electronic structure and physical properties, including anisotropic features, of high-temperature materials, with a focus on cuprates. The main source of the observed complex behavior is that four different energy terms have similar magnitudes. As an example, Figure 10 shows a cross-section of a Bi-2212 round wire made by Oxford Superconducting Technologies.

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Bi-2223 is most readily fabricated using PIT techniques, in which powders of the Bi-2212 phase and other precursor oxides Ca 2PbO 4, CuO,

Sr,Ca 14Cu 24O x are packed into an Ag tube, in a manufacturing process very similar to that used for Nb 3Sn. The signal giving species may have different type of attachments with the additional oxygen ions or the crystal field around these species may also be different. Cross-section of a Bi-2212 multifilamentary round wire fabricated by Oxford.

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High Temperature Superconductors

Top: one-dimensional metals often depart from this framework.

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A second class of high-temperature superconductors found recently is based on iron-pnictide and -chalcogenide compounds and alloys, with the highest T_c around 55 K in SmFeAsO 1-d Hirschfeld et al.

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