



Filamentary A15 Superconductors (Cryogenic Materials Series)

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Compound superconductors with the A15 structure carry the promise of the second generation in practical superconductivity. They will provide higher operating magnetic fields at higher temperatures than the preceding alloy superconductors. To fulfill this promise, their brittle nature must be accommodated in a filamentary structure. Achieving this has been no simple task and imaginative research and clever production techniques have led to many usable conductor configurations. In addition, several new and exciting possibilities are being proposed; for example, in situ processing promises easier production with improved strain tolerance. It is timely, therefore, to take measure of what we have achieved and to assess our understanding so that we may choose, with some confidence, paths for future research and potential applications. To meet these needs, the International Cryogenic Materials Conference Board has sponsored this special topic conference on Filamentary A15 Superconductors bringing together superconductivity researchers, superconducting wire producers, and high field magnet users to discuss current research problems. That the information exchange was intensive and successful is evidenced by the excellent papers in this volume. In order to capture some of the synergistic wisdom generated in discussions at the conference several people were asked to assemble and interpret the comments and concerns of the fusion, high energy physics, solid state physics, and metallurgy groups.

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