

Advances in Cryogenic Engineering

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The International Cryogenic Materials Conference covers cryogenic magnetic materials, structural materials, non-metallic materials, materials testing, mechanical properties of materials used in cryogenic applications, and low, high, and intermediate -temperature superconductors. Detailed room and low temperature properties of cryogenic functional materials, physical and mechanical properties of metallic and non-metallic materials and performance of insulation materials upon irradiation are provided in this Proceedings. Processing, fabrication, and electromagnetic properties of conventional low-temperature, high-temperature, and magnesium diboride superconductors are also presented. Topics include: cryogenic functional materials; cryogenic materials testing; physical and mechanical properties at cryogenic temperatures; non-metallic materials-properties; non-metallic materials-insulation; Nb-Ti conductors; Nb₃Sn conductors; Nb₃Al conductors; MgB₂ conductors; HTS bulk conductors; BSCCO conductors; HTS coated conductors; HTS electronics and thin film; stability and AC loss; HTS prototype devices; and HTS stability and training of magnets.

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