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A Review on Design and development of doped super conductors.

S. Adithya

Abstract : Superconductors are conductors exhibiting unusual properties at low temperatures. Normally superconductors are having high critical temperatures and hence conductors of low critical temperatures should be doped for satisfactory results. Extensive research work was reported in literature, regarding magnetic flux flow in superconductors. However there are only discrete references in literature on, developing super conductors operating at room temperatures. An attempt is made in this paper, to review the existing literature on doped superconductors to identify the developments of superconductors as on to day, and fixing the limitations there in. The various techniques developed to address the limitations are reviewed. The results arrived at are discussed. The major contribution of the present work is ,to brief on the latest technologies involved in doped super conductors and to fix the issues and challenges in designing the superconductors. The present work offers excellent scope for future work in this area.