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Study of Vickers' Micro Hardness on $\text{InBi}_{0.85}\text{Sb}_{0.15}$ Single Crystals

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Abstract: $\text{InBi}_{0.85}\text{Sb}_{0.15}$ single crystals have been grown by zone-melting method. The growth velocity was 0.8 cm/h and the freezing interface temperature was 35 °C/cm. A Vickers' projection microscope was used for the study of micro hardness of the crystals. Hardness tests were carried out on the as-cleaved, cold-worked and annealed surfaces of the crystals. The effect of perfection of crystals on micro hardness with respect to the cold-worked, as-cleaved and annealed crystals have been studied and the results are reported.

Key Words: Vickers' micro hardness, Cold-worked crystals, Annealed crystals, Zone-melting method

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