Micromorphological studies on the surfaces of the ZnS single crystals grown by chemical vapour transport

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Abstract: Micromorphological studies were carried out on the surfaces of the ZnS single crystals grown by chemical vapour transport (CVT). Different micromorphological patterns such as layers, steps, kinks, stripes and pits were observed using Scanning Electron Microscope. Formation of these patterns was correlated to the growth of crystals under theoretically predicted optimum and nonoptimum conditions.

Keywords: Chemical Vapour Transport (CVT); Zinc Sulfide (ZnS); optimum and nonoptimum growth temperature; micromorphology.

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