Crystal defects

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Ideal crystals are characterized by an ordered, periodic repetition of atoms, ions, or molecules. In real crystals, this periodicity is almost always disrupted, resulting in crystal defects. There are several types of crystal defects: point defects, line defects, surface defects, and volume defects.

This report discusses the impact of defects on the properties of crystals, the causes of defect formation, and the methods of studying them.