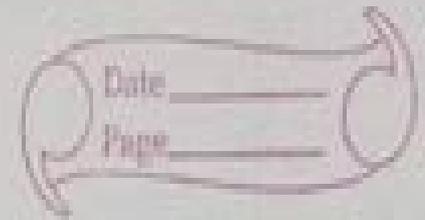


Engineering Physics I

Crystallography



Introduction :- Matter occurs in three states - solid, liquid and gaseous. Different solid have different structure such as crystalline and amorphous.

Crystalline solids

1. Form a regular, repeated three dimensional pattern of atom, ions or molecules of which they are made up.

Amorphous solid

1. No such regular or repeated pattern or arrangement is observed.

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The Nation ,1871 *Notes on books* Longmans, Green and co,1917 **A Critical Dictionary of English Literature and British and American Authors, Living and Deceased** Samuel Austin Allibone,1896 **With Announcements for the Winter Semester and the Spring Semester of ... and ...** University of Notre Dame,1891 **Classed Subject Catalog** Engineering Societies Library,

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