

TEACHING LEARNING MATERIAL

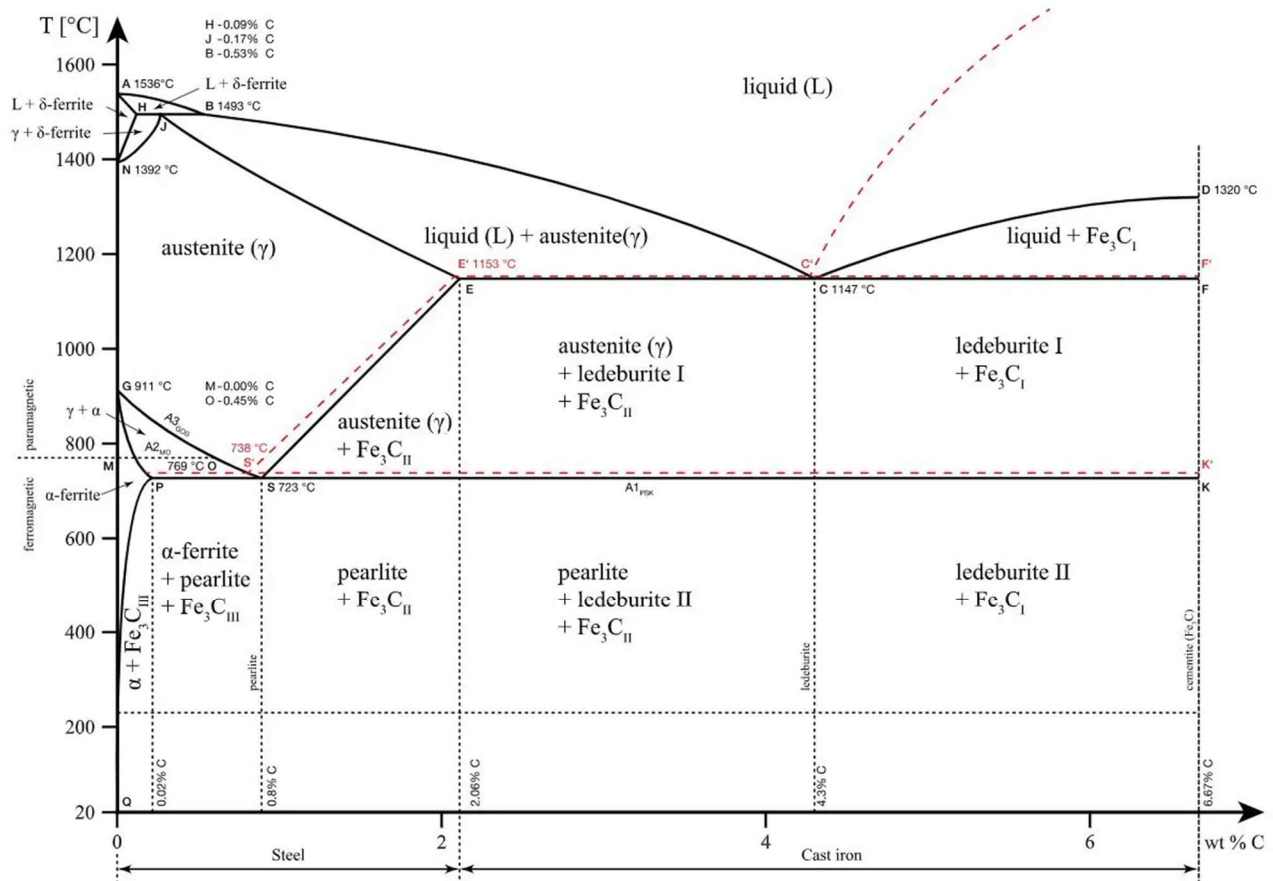


BRANCH: MECHANICAL ENGINEERING

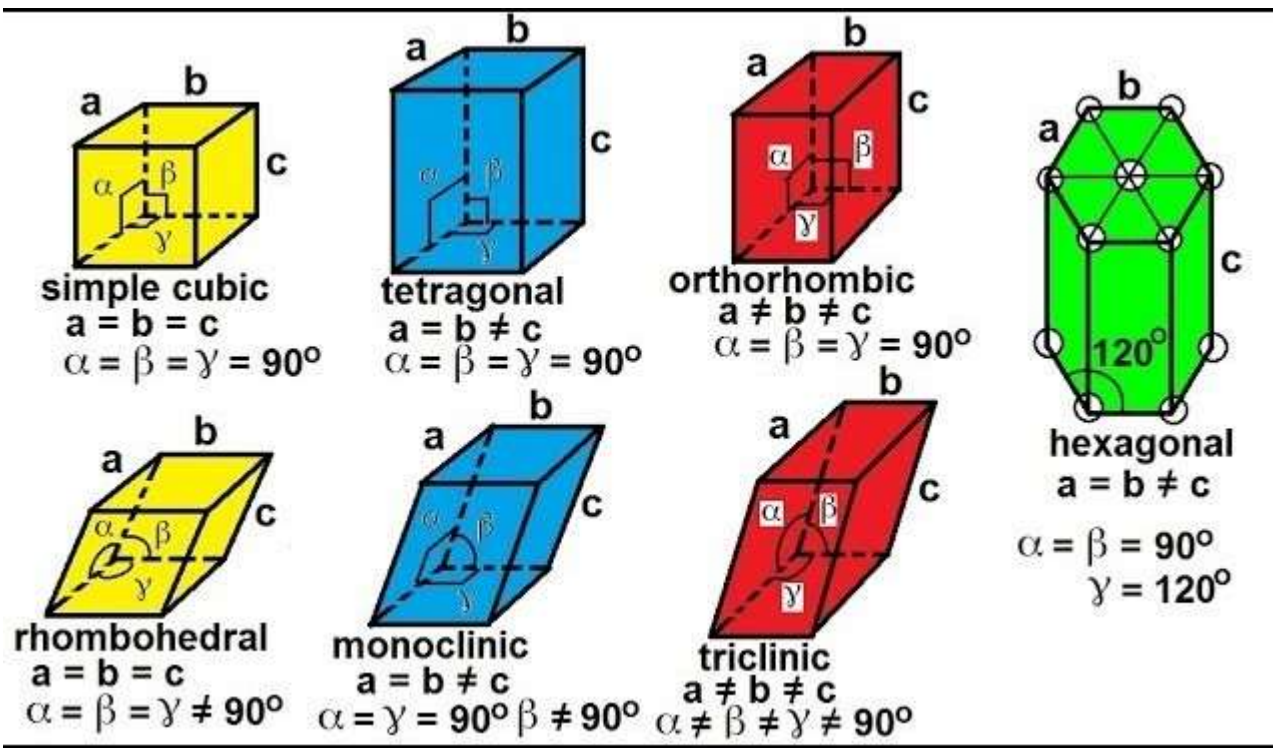
SEMESTER: 3RD SEMESTER

SUBJECT: ENGINEERING MATERIAL

PREPARED BY: PROF. PODAL BIKASH KUMAR

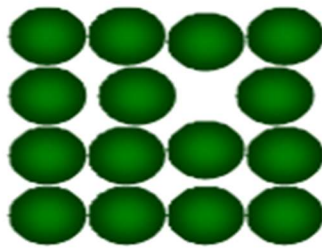


IRON-CARBON PHASE DIAGRAM

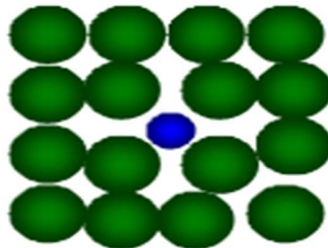


TYPES OF 7 CRYSTAL SYSTEMS

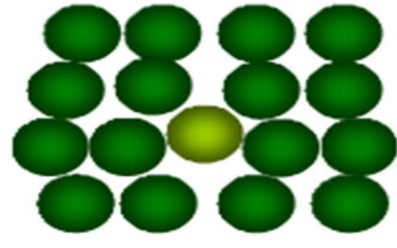
Point defects of crystals



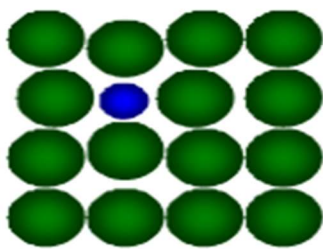
Vacancy



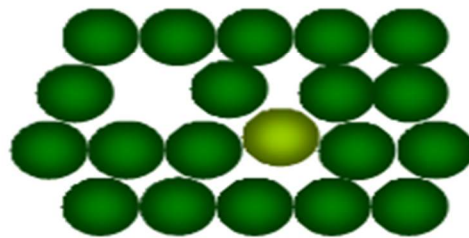
Interstitial impurity



Self-interstitial



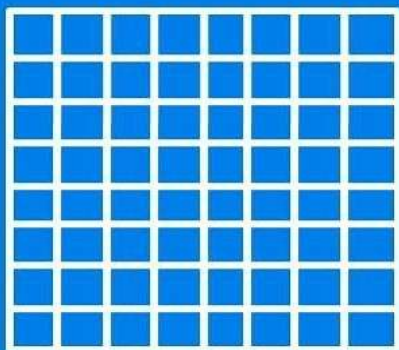
Substitution impurity



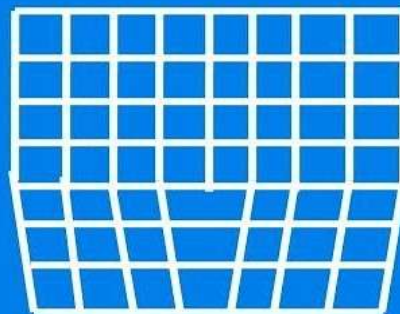
Frenkel defect

POINT DEFECTS OF CRYSTALS

Line Defects



Perfect crystal



Edge dislocation

LINE DEFECTS OF CRYSTALS