

Name - VALECHA DHEERAJ KAILAS

Roll no – CE22RESCH01006

Email - ce22resch01006@iith.ac.in

PhD RESEARCH AREA

THERMO STRUCTURAL ANALYSIS FOR PREDICTING DAMAGE/FRACTURE IN FUNCTIONALLY GRADED THERMAL BARRIER CERAMIC COATINGS USED IN INSULATING STRUCTURES, USING A PERIDYNAMIC APPROACH.

DESCRIPTION

THIS STUDY'S PRIMARY GOAL IS TO BUILD A THERMODYNAMICALLY CONSISTENT THERMO MECHANICAL ANALYSIS TO STUDY DAMAGE/FRACTURE EVOLUTION IN FUNCTIONALLY GRADED TBC CONSIDERING RATE EFFECTS USING A NONLOCAL PHASE FIELD PERIDYNAMIC APPROACH.