

# Indian Institute of Technology Kharagpur

Upon the recommendation of the Senate  
hereby confers the degree of

**Doctor of Philosophy**

in

**Engineering**


on **Nil Ratan De**

Given this day under the seal of the Institute at Kharagpur in the  
Republic of India.

The 12th March 1990.

Title of thesis: *Some Studies on Distortion in Welding.*

Registered in: *Department of Mechanical Engineering*

  
Registrar



  
Director