| Courses » Creep deformation of materials                                |  |
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|   |  |
| Register for<br>Certification exam                                      | Assignment 4   |
| Course<br>outline   | The due date for submitting this assignment has passed.<br>As per our records you have not submitted this Due on 2019-02-27, 23:59 IS assignment.          |
| How to access the portal  | 1) Continuum damage mechanics (CDM) based approach is useful for <b>1</b> po<br>creep life modelling than creep life modelling based on steady state creep |
| Week 0  | rates from a single mechanism because  |
| Week 1  | CDM approach accounts for the damage process which is not taken<br>into account during modelling based on a single creep mechanism                         |
| Week 2  | CDM approach considers a constant stress while single creep<br>mechanism based approach considers a constant temperature                                   |
| Week 3  | CDM approach uses an exponential dependence on stress whereas  |
| Week 4  | single creep mechanism based approach uses a power law dependence<br>on stress.  |
| Quiz :<br>Assignment 4  | CDM approach does not account for instantaneous changes in stress<br>whereas single creep mechanism based approach accounts for                            |
| Creep Testing<br>Methods - Part   | instantaneous changes in stress.   |
| 1   | No, the answer is incorrect.<br>Score: 0   |
| Creep Testing<br>Methods - Part<br>2                                    | Accepted Answers:<br>CDM approach accounts for the damage process which is not taken into a<br>during modelling based on a single creen mechanism          |
| <ul> <li>Improving<br/>Creep<br/>Resistance of<br/>Materials</li> </ul> | 2) In Ti-1100 alloy, the lamellar microstructure provides better creep <b>1</b> por resistance than the bimodal microstructure because                     |
| Week - 4<br>Feedback Form   | The lamellar microstructure has higher elastic modulus than the bimodal microstructure   |
| Download<br>Videos  | The lamellar microstructure has higher stacking fault energy than th bimodal microstructure  |
| Extra Lecture   | The lamellar microstructure provides greater geometric obstacles for<br>dislocation motion than the bimodal microstructure                                 |









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8) Below is the stress vs LMP plot for pure Ti. The LMP value for an applied stress of 200 MPa is \_\_\_\_\_







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