Graduate Study Course EP716 Reactor Thermal-Hydraulics Design

Student:		Test #3
Date:	27 Nov 2002	Fuel-coolant Heat Transfer Critical Heat Flux Pressure Drop
Scope:		 Derive the fuel temperature at the surface of the fuel pellet as a function of axial direction, and find the location of the maximum temperature, and show the maximum temperature. [20 points] In a fuel element with UO2 pellet radius of 1 cm, and linear power of 500 W/cm, find the difference in fuel centreline temperature between the following two cases: