	-22, 13/35
(8 3)	Dolutim.
14	pressured = 6 Mpa
	Avg radius: 506 mm.
	Avg radius: 5.6 mm. Cladding thickness: 0-6 mm
g (Me page 4) (monage a monage	
a)	The assumptions made in the town walled
1	cylinder approximation for the Stress state are:
\rightarrow	We assume very Small Strains
-)	cyluder approximation for the Stress state are: We assume very small Strains we also assume isotropic matrical response.
	-3, Stress constant across wall thickness
(b)	All three components of the stress using the
	All three components of the stress using the their walled cylinder approximation are:
and the second s	- PR 10.56 j
	$\overline{60} = \frac{PR}{8} = 6Mpa\left(\frac{0.56}{0.06}\right)$
	00 = 55-99 = 60 MPg
Marie Tues o marie and marie a land of the second of the s	
	$\overline{o}_{z} = \frac{PR}{PR} = 6MPa\left(\frac{0.56}{2\times0.06}\right)$
	26
Character and the second secon	02 - 27.99 MP4/
and the second s	and the state of t
and the processing and the processing of the pro	======================================
e tradicione e company de la c	= $-3 Mpq$

c) Using this woulled Cylinder approximation
for cladding is Jess curvate than that
that of using thick, wall approximation
this is because we only core aport shouly
state 'solution', consider axis ymmetric i
temperature is constant on z-direction
and the thermal conductivity is a codyperdent of temperature but in thick we
als not assume more.

-10, Calculate stress at two radii using thick wall equations and see if constant and compare to answer from part b

d) solution: E = 70 GPa, S = 0.41To find: directly and strain tensors. $C_{11} = E(1-v)/(1+v)(1-2v)$ $C_{11} = 70(1-v.u1)/(1+v.u1)(1-2x0.u1)$ 4. Stress and strain not shown in tensor form
5. Calculate strains from stress from part b $C_{11} = 70(0.59)/(1.41)(1-0.87)$ $C_{11} = 162.7265. \text{ GPa}$ $C_{12} = 70.(0.41)/(1.41)(1-0.87)$ $C_{13} = 0.8 \text{ Gpa}$

	Beda Kafley
	The state of the s
	Nuclear Ergenouring 947
	Exam #1:
91)	Lolutem18, 12/30
The same of the sa	given de la
	given: U3 Sis as fuel material
	Thermal conductivity = 12.5 W/mk
	density: 7.5 grams of U/cm3
	on 1 - 1. All sol in Up 5: - is hathrally
a)	The fissile mederal in USS; 5 is hastrally
	occurring unever which is wainrum - 235,
	Vranium - 235
, 1 de ja	Uranium -235 Would have emochment
	at in the natural (experichment)
* 1	from of the fuel.
6)	-15
	-10
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