Angélica Maria Lopez Morales

$$\frac{\partial}{\partial x} \left( \frac{\partial T}{\partial x} \right) + Q = 0 \qquad T'(x_0) = 0 \qquad x_0 = 0$$

$$\frac{\partial}{\partial x} \left( \frac{\partial T}{\partial x} \right) = -Q$$

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$$V \frac{\partial T}{\partial x} = -Qx$$

$$\frac{\partial T}{\partial x} = -\frac{Q}{k} \times$$

$$T = -Q \times^2 + T_1 + Q \times^2$$

$$\frac{\chi^2}{\chi}$$

$$1 + T_1 = Q (\chi^2 - \chi^2)$$

$$2 \chi$$

To get the provide equation it was assumed:

1 study state

@ axisymmetric

@ Temperature is constant in 2 9 He Hermal conductivity is constant

$$= 981,81 \text{ K}$$

$$T_0 = Q R_f^2 + T_f = \frac{400 \text{ M} \text{ cm}^3 \cdot 40^{\text{cm}} + 981,81 \text{ K}}{4 \text{ K}} = 1053,31 \text{ K}$$

$$\frac{1}{4 \text{ K}} = \frac{400 \text{ M} \text{ cm} \times 40^{\text{cm}} + 981,81 \text{ K}}{4 \text{ K}} = \frac{1053,31 \text{ K}}{4 \text{ K}}$$

$$T(\Gamma_1 = 0,4) = \frac{Q}{4K} \left( \frac{2}{12} - r^2 \right) + Tf$$

$$= \frac{40000 \text{ fem}^2}{4000 \text{ fem}^2} \left( \frac{0,6^2 - 0,4^2}{1000 \text{ fem}^2} + \frac{981,816}{1000 \text{ fem}^2} \right)$$

$$= \frac{1001,81 \text{ K}}{1000 \text{ fem}^2}$$

2) 
$$kf = 15,5 \text{ W/mk}$$
  
 $e = 0,195$   
 $f_f = 15,679$   
 $cm^3$   
 $6f = 570.10^{24} cm^2$   
 $\phi_n = 2.10^{12} \frac{n}{cm^2s}$ 

a) 
$$Q=Ef\cdot Nf\cdot 6f\cdot \Phi$$
 $Q=235\cdot 2195+298\cdot 01805=237,415aom$ 
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$$Q = 200 \text{ Hed} \cdot 10^{6} \text{ ed} \cdot 1,002 \text{ to}^{19} \frac{1}{9} \cdot 7,10 \text{ to}^{3} \text{ afom} \cdot 570.10^{29} \text{ cm}^{3}$$

$$Q = 200 \text{ Red} \cdot 10^{9} \frac{1}{9} \cdot 10^{19} \cdot 10^{1$$

= 0,05 80

45 : Solro. PL= 1'2.120 "1'3312 1,2.0,12.1404

= 1,415

Sodion see larger change.

(5) dt=0,33 tn=2 y(to)=4 to=1 y'=4t-3:t2 L<sub>1</sub> = to + ΔC = 1+0,33 = 1,33 γ<sub>1</sub> = 40 + dty = 6 + 0,35 • (4-3) to=1 y(to)=6 Forward  $= \varphi_{1} = \varphi_{2} = \varphi_{1} + d \xi = \varphi_{1} = \varphi_{1} = \varphi_{1} = \varphi_{2} = \varphi_{3} = (9 \cdot (1) + 3) - 3(1) + 3 = 3$ t 2= t1+0T = 1,33+0,33  $y_3 = y_2 + dt y_2^2 = 41334 + (4(1,64) - 3(1)64)$ =1,0%

t3 = t+BC= 2 = 4,7072

Book word.

 $t_{1}=1,33$   $y_{1}=y_{0}+aty'_{1}=(0+0,33)\cdot \left[4(1,33)-3(1,33^{2})\right]$ t 2=1,66 42=41 + dt 42 = 6,004 + 0,33 · [4(1,56) -3(1,662)] 43=42+dt 43=5,4671+0,33(4-2°-3022) t3=2

- Dafissile usotope con undergone fission by absorption of Hermel neutron. On the other hand and fission about po con undergone fission as well but by every etic neutrons, Frolly a fertile isotope do to ordergone fission by thermal or every etic neutron but can attable a nation an be converted into a fissile isotope.
  - 1) O Because it dostrally saels Thous anisotropic thermal exponsion an instration growth
- (b) snear density is the radio of the valumen of trul pellet to

  fuel element

  someordensity = ril ril

  someordensity = ril ril

  it is necessary (seconse the fuell swell so an smear density liss

  it is necessary (seconse the fuell cladding mechanical and

  than I is impurtant to avoid trul cladding mechanical and
- Chemical interactions

  Chemical interactions

thermal nultron

OF 6 is offlite in the enrichment process.

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The centrifue of high speed because 0-25 and 0-238 will more towards the

and rotate of high speed because 0-388 will more towards the

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W) Ofinite disterence.

@ frate volomen

(3) finite element.

finite element is more correctly used due to more flexibility with geometry and boundary conditions Hon finite difference wich home been troditionally use. Finity volumen is not use because it canot solve for steer