Untitled

March 10, 2021

Parte A examen parcial transferencia de calor Rafael Beltran Hernandez 20171217

el radio critico de aislamiento es 0.005 debido a que es un cilindro

El radio critico es menor al radio nominal $r_{nominal} = 0.1$

Ejercicio Práctico

```
[4]: import sympy as sp
1 = sp.Symbol('1')
```

```
[6]: import numpy as np
```

```
[16]: D = 5/1000 #m

k = 240

h = 200

m = np.sqrt(4*h/(k*D))
```

```
1095
1096
           if bare f:
-> 1097
               solution = _solve(f[0], *symbols, **flags)
  1098
           else:
               solution = _solve_system(f, symbols, **flags)
  1099
~/anaconda3/lib/python3.7/site-packages/sympy/solvers/solvers.py in _solve(f,_
→*symbols, **flags)
  1480
               try:
  1481
                   if poly is None:
-> 1482
                       poly = Poly(f_num)
                   if poly is None:
  1483
  1484
                       raise ValueError('could not convert %s to Poly' % f_num)
"/anaconda3/lib/python3.7/site-packages/sympy/polys/polytools.py in _new_(cls,
→rep, *gens, **args)
                       return cls._from_poly(rep, opt)
   160
   161
                   else:
--> 162
                       return cls._from_expr(rep, opt)
   163
           # Poly does not pass its args to Basic._new_ to be stored in _args_
   164
⇔so we
~/anaconda3/lib/python3.7/site-packages/sympy/polys/polytools.py in_
→_from_expr(cls, rep, opt)
   290
               """Construct a polynomial from an expression. """
   291
               rep, opt = _dict_from_expr(rep, opt)
--> 292
               return cls._from_dict(rep, opt)
   293
   294
           @classmethod
~/anaconda3/lib/python3.7/site-packages/sympy/polys/polytools.py in_
→_from_dict(cls, rep, opt)
   239
                       rep[monom] = domain.convert(coeff)
   240
--> 241
               return cls.new(DMP.from_dict(rep, level, domain), *gens)
   242
   243
           @classmethod
~/anaconda3/lib/python3.7/site-packages/sympy/polys/polyclasses.py in_
→from_dict(cls, rep, lev, dom)
   274
           def from_dict(cls, rep, lev, dom):
               """Construct and instance of ``cls`` from a ``dict``_
   275
→representation. """
--> 276
               return cls(dmp_from_dict(rep, lev, dom), dom, lev)
   277
   278
           @classmethod
```

```
~/anaconda3/lib/python3.7/site-packages/sympy/polys/densebasic.py in_

→dmp_from_dict(f, u, K)
   1010
                if coeff is not None:
   1011
-> 1012
                    h.append(dmp_from_dict(coeff, v, K))
   1013
                else:
                    h.append(dmp_zero(v))
   1014
~/anaconda3/lib/python3.7/site-packages/sympy/polys/densebasic.py in_

→dmp_from_dict(f, u, K)
            11 11 11
    990
    991
            if not u:
                return dup_from_dict(f, K)
--> 992
    993
            if not f:
    994
                return dmp_zero(u)
~/anaconda3/lib/python3.7/site-packages/sympy/polys/densebasic.py in_
 →dup_from_dict(f, K)
    943
                for k in range(n, -1, -1):
    944
                    h.append(f.get((k,), K.zero))
--> 945
    946
    947
            return dup_strip(h)
KeyboardInterrupt:
```

[]: