??
??

$$C(x,t)t = D(C)[2]C(x,t)x$$

(1)

??
Δi
i
Δj
j
??
??

$$C_i^{j+1} - C_i^j \Delta j = DC_{i+1}^{j+1} - 2C_i^{j+1} + C_{i-1}^{j+1}(\Delta i)^2$$

(2)

??
0 =
i
0$i \in$
$[0; n+$
1]

$$\text{CondiesdeContorno} : \begin{cases} C(x=0, t>0) = C_0^j = C_s \\ C(x \to \infty, t>0) = C_{n+1}^j = 0 \end{cases} j \in [0,T]$$

??

$$C_i^{j+1} - \frac{D\Delta j}{(\Delta i)^2}(C_{i+1}^{j+1} - 2C_i^{j+1} + C_{i-1}^{j+1}) = C_i^j$$

(3)

$D\Delta j(\Delta i)^2$
$Fo =$
$D\Delta j(\Delta i)^2$
??
Fo
$^{j+1}_{i+1}+$
$(1+$
$2Fo)C_i^{j+1} -$
$FoC_{i-1}^{j+1}) =$
C_i^j
$c_i^{j+1} =$
$1(1 + 2Fo)C_i^j +$
$Fo(1 + 2Fo)C_{i-1}^{j+1} +$
$Fo(1 + 2Fo)C_{i+1}^{j+1}$
??
$Fo >$
0
$^{j+1}_{i+1}-$
$(1+$
$2Fo)C_i^{j+1} +$
$FoC_{i-1}^{j+1}) +$
$C_i^j =$
0
$i =$
$1:$
$FoC_0^{j+1} -$
$(1+$
$2Fo)C_1^{j+1} +$
$FoC_2^{j+1} +$
$C_1^j =$
0
$(1+$
$2Fo)C_1^{j+1} -$
$FoC_2^{j+1}) =$
$FoC_s^{j+1} +$
C_1^j
$i =$
$2:$
$FoC_1^{j+1} -$
$(1+$
$2Fo)C_2^{j+1} +$
$FoC_3^{j+1} +$
$C_2^j =$
0
$(1+$
$2Fo)C_2^{j+1} -$
$FoC_3^{j+1}) -$
$FoC_1^{j+1} =$