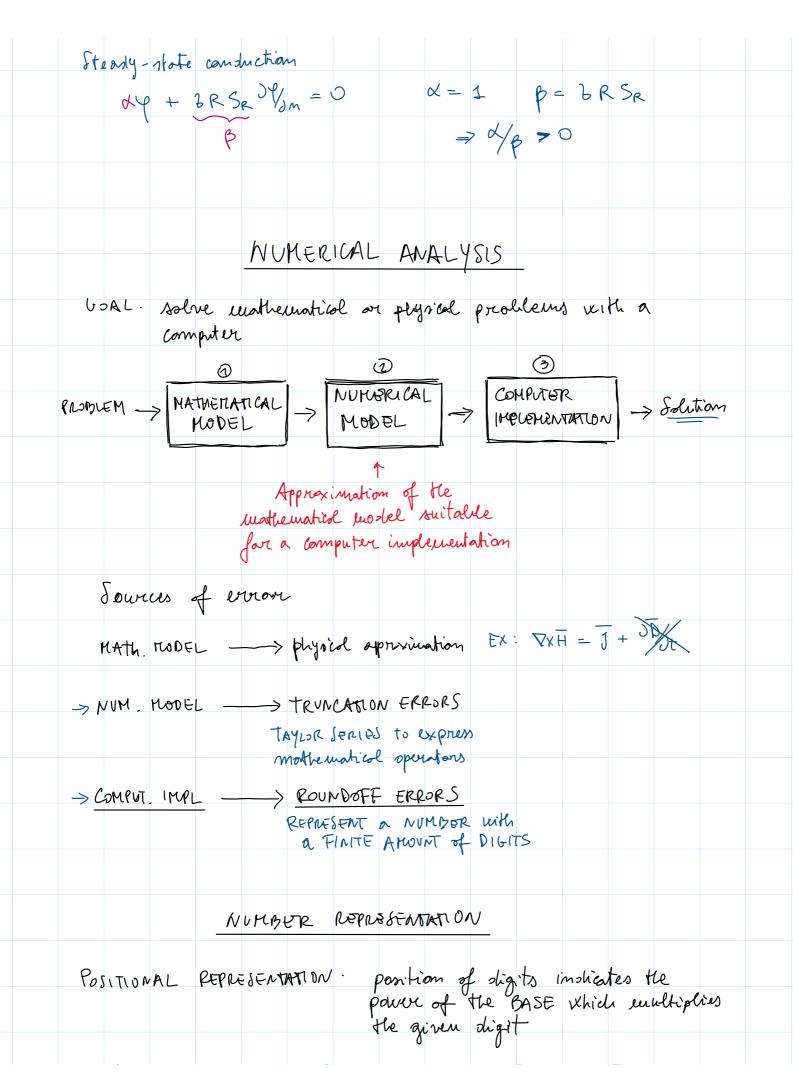


Formlation: $V = V^2 Y = 0$ $S_0 = V_3$ $S_N = 0$ $S_R = 0$ $S_R = 0$ $S_R = 0$ $S_R = 0$
SR ( P+ RB SR OVM = 0
Moun electrol/geometric (olso Vg)
UNIQUENESS theorem for POISSON PROBLEMS with ROBIN BC
$V \int \nabla^2 \varphi = t$
$\nabla \nabla^{2} \varphi = t$ $S_{D} \qquad \qquad$
$S_{R}$ $dy + \beta y_{n} + \delta = 0$ $S_{R}$
S = SDUSR
Proof An Ansvedon -> assume soutons for les
GOBL prove lot 93 = 92 - 92 = 0
$\nabla \nabla^2 \psi_1 - \nabla^2 \psi_2 = \boxed{\nabla^2 \psi_3 = 0}$
$S_D \left\{ \begin{array}{c} \gamma_1 - \gamma_2 = \sqrt{\gamma_3 - 0} \end{array} \right\}$
0 1901
$\alpha \left( \frac{\varphi_1 - \alpha_2}{2} + \frac{\varphi_2}{2} \right) + \frac{\varphi_2}{2} \left( \frac{\varphi_1}{2} \right) = 0$
$\left \frac{\alpha}{\alpha}+\beta\frac{\beta}{\beta}m=0\right  \text{ on } S_{R}$
GREEN'S FIRST IDENTITY - application to 93
$ \psi = \psi_3     \psi = \psi_3     \nabla^2 \psi_3 = 0 $

	· · · · · · · · · · · · · · · · · · ·	
f = f3, , + = f3	$\nabla^2 \psi_3 = C$	
	$= \int_{V} \left( \nabla \varphi_{3}^{2} + \varphi_{3} \nabla \varphi_{2} \right) dx$	dV
5	V	
= 0 on 5D		
( \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	$+ \int_{S_R} \varphi_3 \frac{\varphi_2}{2m} dS = \int_{V}$	743 dV
Sp	SR V	
	Ψ2/ // .	
	$\frac{1}{3} \frac{1}{3} = -\frac{1}{3} \frac{1}{3}$	
$\left( - \sqrt{\varphi} \right)^2$	$\int_{V} \nabla \psi_{3}^{2} dV$	
) SR >0	, , , , , , , , , , , , , , , , , , ,	
LHS (4n)	( b)	
IF X/ > 0	$US(Y_2) = RHS(Y_2)$	LHS ≠ RHS ₩
η /β΄	$-HS(Y_3) = RHS(Y_3)$	7 Y > # O
	≤ 0 ≥ 0	Solution i in que
		$f_{\gamma=0} \Rightarrow f_{\gamma} = f_{z}$
IF Yp < 0 Lt	$tS(Y_3) = RHS(Y_3)$	there I (3 × 0
	≥ 0 ≥ 0	there $f (3 \neq 0)$ Such that  LHS( $(47)$ ) = RHS( $(43)$ )
For DIRICHLET + ROP		$f  \begin{array}{c} +  \begin{array}{c} +  \\ - \end{array} \\ - \\ \end{array} \qquad \begin{array}{c} +  \begin{array}{c} +  \\ - \end{array} \\ \end{array} \qquad \begin{array}{c} +  \begin{array}{c} +  \\ - \end{array} \\ \end{array} \qquad \begin{array}{c} +  \begin{array}{c} +  \\ - \end{array} \\ \end{array} \qquad \begin{array}{c} +  \begin{array}{c} +  \\ - \end{array} \\ \end{array} \qquad \begin{array}{c} +  \begin{array}{c} +  \\ - \end{array} \\ \end{array} \qquad \begin{array}{c} +  \begin{array}{c} +  \\ - \end{array} \\ \end{array} \qquad \begin{array}{c} +  \begin{array}{c} +  \\ - \end{array} \\ \end{array} \qquad \begin{array}{c} +  \begin{array}{c} +  \\ - \end{array} \\ \end{array} \qquad \begin{array}{c} +  \begin{array}{c} +  \\ - \end{array} \\ \end{array} \qquad \begin{array}{c} +  \begin{array}{c} +  \\ -  \end{array} \\ \end{array} \qquad \begin{array}{c} +  \begin{array}{c} +  \\ -  \end{array} \\ \end{array} \qquad \begin{array}{c} +  \begin{array}{c} +  \\ -  \end{array} \\ \end{array} \qquad \begin{array}{c} +  \begin{array}{c} +  \\ -  \end{array} \\ \end{array} \qquad \begin{array}{c} +  \begin{array}{c} +  \\ -  \end{array} \\ \end{array} \qquad \begin{array}{c} +  \begin{array}{c} +  \\ -  \end{array} \\ \end{array} \qquad \begin{array}{c} +  \begin{array}{c} +  \\ -  \end{array} \\ \end{array} \qquad \begin{array}{c} +  \begin{array}{c} +  \\ -  \end{array} \\ \end{array} \qquad \begin{array}{c} +  \begin{array}{c} +  \\ -  \end{array} \\ \end{array} \qquad \begin{array}{c} +  \begin{array}{c} +  \\ -  \end{array} \\ \end{array} \qquad \begin{array}{c} +  \begin{array}{c} +  \\ -  \end{array} \\ \end{array} \qquad \begin{array}{c} +  \begin{array}{c} +  \\ -  \end{array} \\ \end{array} \qquad \begin{array}{c} +  \begin{array}{c} +  \\ -  \end{array} \\ \end{array} \qquad \begin{array}{c} +  \begin{array}{c} +  \\ -  \end{array} \\ \end{array} \qquad \begin{array}{c} +  \begin{array}{c} +  \\ -  \end{array} \\ \end{array} \qquad \begin{array}{c} +  \begin{array}{c} +  \\ -  \end{array} \\ \end{array} \qquad \begin{array}{c} +  \begin{array}{c} +  \\ -  \end{array} \\ \end{array} \qquad \begin{array}{c} +  \begin{array}{c} +  \\ -  \end{array} \\ \end{array} \qquad \begin{array}{c} +  \begin{array}{c} +  \\ -  \end{array} \\ \end{array} \qquad \begin{array}{c} +  \begin{array}{c} +  \\ -  \end{array} \\ \end{array} \qquad \begin{array}{c} +  \begin{array}{c} +  \\ -  \end{array} \\ \end{array} \qquad \begin{array}{c} +  \\ \end{array} \qquad \begin{array}{c} +  \\ -  \end{array} \\ \end{array} \qquad \begin{array}{c} +  \\ -  \end{array} \qquad \begin{array}{c} +  \\ +  \end{array} \qquad \begin{array}{c} +  \\ -  \end{array} \qquad \begin{array}{c} +  \\ +  \\ \end{array} \qquad \begin{array}{c} +  \\ +  \end{array} \qquad \begin{array}{c} +  \\ +  \\ \end{array} \qquad \begin{array}{c} +  \\ +  \\ \end{array} \qquad \begin{array}{c} +  \\ + $
	only for $\frac{4}{5}$	
	1/6/01	Solution is <u>vo</u>
Steady-state conduction	m ,	



the given digit	
$Ex \cdot (3012)_{10} = 3 \cdot 10^{3} + 0 \cdot 10^{2} + 1 \cdot 10^{1} + 2 \cdot 10^{0}$	
$ NT_{\xi}\cup\xi RS $ $q_{\beta} = a_{n} p^{n} + a_{n-1} p^{n-1} + + a_{s} p^{s} + a_{s} p^{s}$	
DIGITS. DASE	
ar EN	
$0 \le a_k \le \beta - 1$ $\beta \ge 2$	
otherwise $.032$ $.032$	
REALS: X = L X J + frac (x)	
Pos3 pos0 pos-1	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	- z ) . 10 +
RADY + 1.1	0
POINT M M-1 1 0	
$(X)_{\beta} = a_{m} \beta^{m} + a_{m-1} \beta^{m-1} + \cdots + a_{1} \beta^{1} + a_{0} \beta^{1} + \cdots$	m
$+b_1\beta^2+b_2\beta^2+\cdots+b_m\beta^2$	
Dibits of freehood ports $b_h \in \mathbb{N}$ ; $0 \le b_h \le p-1$ , $b_m \ne 0$	
to avoid: 3.12 = 3.120.	

	1	=(XED	POIN	T PH	3PNF	seath	HJ 0V	) <u> </u>				
Given:	the	number	of	olizit.	s for	r the	. MW	rber	→ t	, , <b>L</b>		
		11 base			, (,	The	- fru	action	lot f	aru ·	<b>→</b> 1	
FIXED	Point	Set			p	EAL N	unstr	. to 6	e rap	vesent	ed	2
X(B	, t <sub>i</sub> e	۹) = {	ХE	R =	: sig	n (x	) \[ \frac{\frac}\frac{\frac}\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac}\firk}}}}}}{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\fir}}}}}}{\frac{\frac{\frac{\frac{\frac}\frac{\frac{\frac}{\frac{\frac{\frac{\frac{\frac{\frac}\firac{\frac{\frac{\frac}\fir}}}}}{\frac{\frac{\frac{\frac{\frac{\frac{\frac}\frac{\frac{\f	9+1) QK!	K 3 +	= 0 pk	-K	
		(					Intege	n par	.t	Inaction	1 purt	
Example	: × (	B=10,	t=4	9=	1)							
Max	= 9	102+9	$\overline{}$				~ -		991	9.9		
Min	<b>-</b> 0	102 + 0			0				0.4	1		
SPRU	<b>Խ</b> Ե (	L×	O 7	0	f:	1ac (	(×)					
_		Ō	0	0		2	Δ:	= 0,	1			
		0	O :	0	0	3			NIFOR PACI			
		O	0	O	•	9			<u>V</u> =	9		
		0	1	2	o	3	} <u>\</u>	<b>↓</b> = 0.	1			
		O	1		0	4	٦					