

SNS COLLEGE OF ENGINEERING

Kurumbapalayam (Po), Coimbatore – 641 107



AN AUTONOMOUS INSTITUTION

Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

Hom H	ie following,	lable		
)(to following.	3 4		
7	-8 -1			
Computo	y (1.5) by	(1). Wing _	Cubic Spline.	
Solu.				
110	oo h=1, & h	=2. No a	MOTO & OTOM	M_ 0
	we Min + 4 Mi			
		h ²	for (=1,0 . C.	h-1)
From	This		i=)	
2.170.000		M 6 /40 -	24.+ 7.7	
		-6[-8-2		
	7.	1 -10		
WILT	51x3- 1 [1:	v: x13n1. +	(x_x;_)3M. 7	
- VV -F-1	S(M) = 1 6h ($\int_{-\infty}^{\infty} (1-x)^{2} dx = \int_{-\infty}^{\infty} (1-x)^{2} dx$	7 +1/22) [4	- h2n
ч	1 h (1:11)	1 91-1-16	7 + + (n-n,) y	6
trom(1)	+ dos I Enga	3 / 2 7 3	1. 1/2 25.	. 1.2
- 8cas	= 6h (x1-x)) Mot (1-10) 1	1 + 1 (x, x) [c	10-1
-	+ 1 (x-x0) [4,-	₩1] T.	
-	- = } 18 1x-10	37+(2-4)	(-8)+[(-(x-1)	- (N-
	15 3	-) (rea + 1	2)-11 (21-1)	
	1 8 (x-1)3		1 4 (A-1)	
-	3 (x-1)3+ H	x-12	-	
-	- 3x3-9x2+13	3× -15		
15	(1.5) -45	8 4' x 5'm)	= 9(4-1)+4 => 5	(1)=



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1	Ising Culair applies land wrong by 1/1) given
	Ising Cubic Epline, find 4(0+) by'(1) given
-11	Mo=Mo=0 and the table.
-	L o L
4	y -5 -1 3
	salu: Here h=1, & h=2
	we have,
	Min + HMi+ Mix = 6 & 41, -24; + 411, 1 for i=1,2h-1
	Pulling i= 1 Mot xM,+M2 = 6[40-24,+42]
+	= 6 [-5-2(-1)+3] =36
-	1M1=36 ≥ M1=9.
-	We will derive the cubic spline in [0.1]
_	W.K.T 8(x) = 1 & Cx:-x)Min+(x-xin) 7:3
	++ (x; -x) & y; - b2m; 2-+ (x-x;) Su -6'
	+ t (x; -x) & y:-1- h2M:-1 y-t (x-x;-1) Syo-to
	Dut 8/22 1 500 7324 . Co 3 7
	Dut 8(x) = \$ { (x,-x)3/40 + (x-x03/4)} + + (x,-x)[40/4] + + (x-x0) [4, - f w,)
T	+ + (N-NO) [y, -1M,)
-	= f 1 (1-x), 0 + (x-0), d
-	+ [(1-4)] [-5-1/0)] + [(m-0)]-4-9/
4	-1[973] -5(1-x) - 33 x
	= = = = = = = = = = = = = = = = = = =
	Sco.5) = == 1/16
	8'(n) = 9x2-16 => 8(1)~y'(1)=9-15-4,
-#-	マークラ るいハッリノニューケッチ