SNS COLLEGE OF TECHNOLOGY





Department of Mechanical Engineering

IGO PARAMETRI C	ELEMENTS
although the same of the same	

160	PARAMETRIC ELEMENTS	
Granger.	an Buadrature and Applications to Plane Stress Problem	
no of	Location corresponding	
Points n	x; weights (wi)	
64		
101 - 10	X, 3 0.000 2.000	
2	$\chi_{1,1}\chi_{2} = \pm \sqrt{\frac{1}{3}}$ = ± 0.571350269	
3	X1, x3 = ± 535, x2=0.00. 5/9=0.555555 = ±0.77459666 9 x2=8/9 = 0.8888	
4	XUNA = ± 0.8611363116 0.3478548451	
-7	0.6521451549	
(01(21)07-(0201/1)		
Evaluate	4 4 2 4	
Gaussion	Suadrature.	
criver data:		
g integral = (x4+x2)dx		
fan = x4+x2		
2, = 13/5 = 0.774596669		
$\chi_2 = 0$		
1 263 = - J315 = -0.774596669		

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weight

$$w_1 = 8q = 0.55555$$
 $w_2 = 8q = 0.55555$
 $w_3 = 5q = 0.55555$
 $w_4 = 5q = 0.55555$
 $w_5 = 5q = 0.55555$
 $w_6 = 50.55555$
 $w_7 = 5q = 0.55555$
 $w_8 = 5q = 0.55555$
 $w_8 = 5q = 0.55555$
 $w_9 = 0.5555 \times 0.96$
 $w_9 = 0.5555 \times 0.96$
 $w_1 = 0.5555 \times 0.96$
 $w_2 = 0.53328$
 $w_3 = 0.96 \times 0.5555$
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 $w_3 = 0.53328$
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