Algebraic Eg" - Eg" containing polynomial borns. Transcendental Equation hn=2 xn+1-2n 2 En-En+1. fla)flp)) o -> either no soof or to 27128mn 203 Anitail App. graphical Method Excemple 2-6 Vf(a)=23+2+120 Table 2.8 Enarple 2.2 204 Alexaline Method Theorem 2.2 Bulgano Method. 2.4.3 Fixed point Desalion AI DUALICAMERA 3.4.3.1 Condution of Connergence for Scanned with ComScanne

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2.44 NrR Hethod Mnel = an - f(an) f(2-21) f(20) +0 2.4.4.2 Order of Convergence fro NR Method. Table 2014 s Problem in Santanu Saha Ray

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Sapprox. Heellwood and 25.09.2000 Significant figure Ultam yhush 13 Numerical Analysis of Absolute error | xy-xu Robertine Error - 124-20 3 Smil, the another three types of enor arei) Anherent Error in Mruncation Siror in) Rounding off Esosof. 24 Rounding Off 1.4.3 2nherent Errol. 2.43 Fixed Paint Dleration f(n)=0 Enangle 26 2.4.4. - Newton Rayhoon Melhod qualuri 2.21 Condition of Convergence

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you geometrical Eignificance of NR 2.4.4.4 Advantages 2 Disaduantages of N-R Method Eng. 2.9 103 x-4,20. Hun the roof is 0.5391791 2-10 log x - 3. Bokrolekha ?? 2.4.5 Lecant Utelhood (Not in Syllabus). 2.4.5.2 Isder of Convergence for the Secant Mellind.

20.5 Generalized Newton Heltrod f(a)= (nd) g(a); g(x) = 0 \$(a) - 2 - 2 f(a) such flat
f(a)

f(a) f(a) -> (2-a) g(a) f(a) -> (x-d) x-1 {(x-d)g(a)+ xg(a)-4 f(a) = (n-a) \$\phi_{i}(a)\$ 2.5.1.1 Newton's Method Let (xo, yo) be an initial apposon. of sook On Taylor Expansión. f(20, yo) + (Dag +

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Numerical 6.4.1 Guass Jacobi 6.4.1.1 Convergence Example 6.9 6.4.2 Guass Seidel Example 6.1.1 Book -Santanu

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Genera Elimination Method Municipal Helloch for Sucultific Computation [Alb] Elemention | U/e] Partial Princting Zuo-hkxz-Xdg Ulan Su Enample 3.5 zuo-hkxz-xdg 10mg-72+ 273-4 6.3.7 7477277326

5 (Numerical Integration with Alogithms and Regremmany t) · f(a) Santada selfember & fle. Integrable function , Brinting fuel " If (n) = p'(n) allow Primitue fivelino @ Only mention can be interreted Sin (n) - diterpalate to apolynomial f(n) = (Pn(a) + TT(x) f(n+1)(\frac{x}{2}), where a < \frac{x}{2} < b. f(a) = E TT(n) = (x-20). (2-2m)

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5.2 Numerical Integration from Lagrange's Interfolation Roulf) of T(n) da. TT (n) = (2-20) - - · (x-x Defendion 5.2 Degree of Precession. 5.3 Newfor - Cotes formula for Namewil Intergoaleon f(n)= = TT(n) T'(ai) y + TT(a) f (m-1)(5) and [fla)da= Z H: y:+ Ron (f). where H! and R. (f) are -(5.F) (b) 11m2h = 2 H! " y + Rmaf) (b) 2K! y; + Kuit). Eg: 5.8

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15- 15-01. 2010 NI - 5: 10(x) yell = [w(x)f(x)dn -(2.82) w(n) > 0 (al n/6)
the weight
fueler 2= [6-1)/2]u+[(6+0)/2] y=f(a)=f(b-an+ 6,0)= p(2). · w(2) = w (bans 619) = 4(a) w, of (24) +w. of 5.81 years dequele Integration Holland 231 5° f(m)dn ≈ (b-a) f(25) -5.94 59 Guarian Quadrature Therein S.3:-

2.1, 2.2, 2.3, 2.43, 2.4.31, 2.4.4, 2.4.4.1, 2.4.4.2 2.4.4.3, 2.4.4.4, 214.5, 214.51, 2.4.5.2, 214.5.3, 2.5 2.5.1, Gauss climination C.4.1, C.4.1.1, 64.2 5.2, 5.3, 5.7, 5.8, 5.9

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