

$$1. \int k \, dx = kx + C \quad (\text{any number } k)$$

$$2. \int x^n \, dx = \frac{x^{n+1}}{n+1} + C \quad (n \neq -1)$$

$$3. \int \frac{dx}{x} = \ln |x| + C$$

$$4. \int e^x \, dx = e^x + C$$

$$5. \int a^x \, dx = \frac{a^x}{\ln a} + C \quad (a > 0, a \neq 1)$$

$$6. \int \sin x \, dx = -\cos x + C$$

$$7. \int \cos x \, dx = \sin x + C$$

$$8. \int \sec^2 x \, dx = \tan x + C$$

$$9. \int \csc^2 x \, dx = -\cot x + C$$

$$10. \int \sec x \tan x \, dx = \sec x + C$$

$$11. \int \csc x \cot x \, dx = -\csc x + C$$

$$12. \int \tan x \, dx = \ln |\sec x| + C$$

$$13. \int \cot x \, dx = \ln |\sin x| + C$$

$$14. \int \sec x \, dx = \ln |\sec x + \tan x| + C$$

$$15. \int \csc x \, dx = -\ln |\csc x + \cot x| + C$$

$$16. \int \sinh x \, dx = \cosh x + C$$

$$17. \int \cosh x \, dx = \sinh x + C$$

$$18. \int \frac{dx}{\sqrt{a^2 - x^2}} = \sin^{-1} \left(\frac{x}{a} \right) + C$$

$$19. \int \frac{dx}{a^2 + x^2} = \frac{1}{a} \tan^{-1} \left(\frac{x}{a} \right) + C$$

$$20. \int \frac{dx}{x\sqrt{x^2 - a^2}} = \frac{1}{a} \sec^{-1} \left| \frac{x}{a} \right| + C$$

$$21. \int \frac{dx}{\sqrt{a^2 + x^2}} = \sinh^{-1} \left(\frac{x}{a} \right) + C \quad (a > 0)$$

$$22. \int \frac{dx}{\sqrt{x^2 - a^2}} = \cosh^{-1} \left(\frac{x}{a} \right) + C \quad (x > a > 0)$$

Some Integrals Involving The Q Function Dtic

Robert R. Redfield



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wheel with some pressure supplies above the vanes then turbine's wheel moves completely may be submerged under the tailrace or may discharge into the atmosphere

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web the 50 reaction turbine has been used widely and has special significance the velocity diagram of a 50 reaction is symmetrical and for the maximum utilization factor the exit velocity v_2 must be axial figure 2 40 shows a velocity diagram of a 50 reaction turbine and the effect on the utilization factor

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web $p_1 v_1 u_1 v_2^2 g z_1 q p_2 v_2 u_2 v_2^2 g z_2 w p_1 v_1 u_1 h_1$ enthalpy of steam at inlet $p_2 v_2 u_2 h_2$ enthalpy of steam at exit $h_1 v_2^2 g z_1 q h_2 v_2^2 g z_2 w$ generally changes in potential energy are negligible $z_1 z_2$ if no heat is supplied from the surroundings then $q = 0$

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