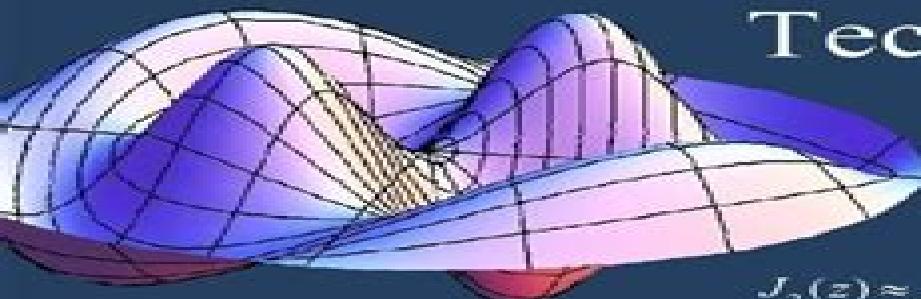


$$\ln \Gamma(1+\varepsilon) = -\gamma\varepsilon + \sum_{n=2}^{\infty} (-1)^n \frac{\zeta(n)}{n} \varepsilon^n$$

$$-\left(\frac{\partial S}{\partial p}\right)_T - \left(\frac{\partial V}{\partial T}\right)_p$$



# Advanced Mathematical Techniques



$$J_2(z) \approx \sqrt{\frac{2}{\pi\sqrt{z^2-4}}} \cos\left[2\text{Arc cos}\frac{2}{z} - \sqrt{z^2-4} + \frac{\pi}{4}\right]$$

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$$\int_0^{\pi/2} \ln \sin x \, dx = -\frac{\pi}{2} \ln 2$$

$$\int_0^{\infty} \frac{\ln^2 x}{x^3+1} \, dx = \frac{10\pi^3}{81\sqrt{3}}$$



Jonathan A. Osborne

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**Yupo Chan**

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Partial Differential Equations for Engineers and Scientists J. N. Sharma, Kehar Singh, 2009. *Partial Differential Equations for Engineers and Scientists* presents various well known mathematical techniques such as variable of separable method, integral transform techniques and Green's functions method, integral equations and numerical solutions to solve a number of mathematical problems. This comprehensive and compact text book primarily designed for advanced undergraduate and postgraduate students in mathematics, physics and engineering is enriched with solved examples and supplemented with a variety of exercises at the end of each chapter. The knowledge of advanced calculus, Fourier series and some understanding about ordinary differential equations, finite differences as well as special functions are the prerequisites for the book. Senior undergraduate and postgraduate students offering courses in partial differential equations, researchers, scientists and engineers working in R&D organisations would find the book to be most useful.

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