



## College Mathematics II: Personal Study Notes

By Mohamed F El-Hewie

Createspace, United States, 2011. Paperback. Book Condition: New. 254 x 203 mm. Language: English . Brand New Book \*\*\*\*\*\* Print on Demand \*\*\*\*\*\*. Special Functions Fourier Transforms Laplace Transforms Chapter 7: SPECIAL FUNCTIONS 1. Gamma Functions 2. Beta Functions 3. Bessel Functions 3.1. Bessel equation for zero order 3.2. Properties of Bessel functions 3.3. Bessel functions of order one (n = 1) 3.4. Relationships between Bessel functions of orders zero and one 3.5. Lammel s integrals 3.6. Fourier-Bessel expansions of zero order 3.7. Vibration of uniformly stretched membrane 3.8. Application of Bessel functions on conduction of heat 3.9. Modified Bessel function of zero order 3.10. Bessel and Kelvin functions 3.11. Bessel functions of any real order 3.12. Bessel functions of integral order 3.13. Bessel coefficients 3.14. Recurrence formulae 3.15. Bessel function as integrals 3.16. The Bessel functions of order n of the third kind (Hankel functions of order n) 4. Legendre functions 4.1. Alternative definition of Legendre polynomials 4.2. Legendre s recurrence formulae 4.3. Integral properties of Lagendre polynomial 4.4. The associated Legendre functions. 4.5. Applications of Legendre functions 5. Exercises on special functions Chapter 8: Fourier transforms 1. Fourier series and harmonic analysis 2. Fourier theorem 3. Preliminary integrals used...



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