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# MATHEMATICAL PAPERS OF THE LATE GEORGE GREEN

EDITED BY N. M. FERRERS

$$\begin{aligned}
 & \int_0^1 \left(1 - \frac{x^2}{a^2}\right)^{-n} (a^2 - x^2)^{-\frac{1}{2}} x^{2r+1} dx = \int_0^1 \Sigma \frac{r^{(n)}}{a^{2n}} (a^2 - x^2)^{-\frac{1}{2}} x^{2r+1} dx \\
 & = \frac{1}{2} a^{2r+1-n} \Sigma \frac{r^{(n)}}{a^{2n}} \times \frac{\Gamma\left(\frac{n}{2}\right) \Gamma\left(r + \frac{1}{2} + \frac{n}{2}\right)}{\Gamma\left(r + \frac{1}{2} + \frac{n}{2} + n\right)} = \frac{1}{2} a^{2r+1-n} \cdot \frac{\Gamma\left(\frac{n}{2}\right) \Gamma\left(r + \frac{n}{2}\right)}{\Gamma\left(r + \frac{n}{2} + \frac{n}{2}\right)} \\
 & \quad \left\{1 + \frac{2r+3}{2r+3+n} \frac{r^{(n)}}{a^2} + \frac{2r+3}{2r+3+n} \cdot \frac{2r+5}{2r+5+n} \frac{r^{(n)}}{a^2} + \dots\right\} \\
 & = \frac{1}{2} a^{2r+1-n} \cdot \frac{\Gamma\left(\frac{n}{2}\right) \Gamma\left(r + \frac{n}{2}\right)}{\Gamma\left(r + \frac{n}{2} + \frac{n}{2}\right)} \times \frac{(2r+1+n)(1-x^2)^{-\frac{1}{2}}}{x^{2r+1+n}} \int_0^1 \frac{x^{2r+1} dx}{(1-x^2)^{\frac{1}{2}}} \\
 & = \frac{\Gamma\left(\frac{n}{2}\right) \Gamma\left(\frac{1}{2}\right)}{2\Gamma\left(\frac{n+1}{2}\right)} \cdot \frac{1 \cdot 3 \cdot 5 \dots 2r+1}{1+n \cdot 3+n \cdot 5+n \dots 2r-1+n} a^{2r+1-n} \\
 & \quad \times \frac{(1-x^2)^{-\frac{1}{2}}}{x^{2r+1+n}} \int_0^1 \frac{x^{2r+1} dx}{(1-x^2)^{\frac{1}{2}}} \dots\dots\dots (34) :
 \end{aligned}$$

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# Mathematical Papers Of The Late George Green Ed By N M Ferrers

**George Green**



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Green,Norman Macleod Ferrers,

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An almost entirely self taught mathematical genius George Green 1793 1841 is best known for Green s theorem which is used in almost all computer codes

that solve partial differential equations He also published influential essays or papers in the fields of hydrodynamics

electricity and magnetism This collection comprises his most significant works The first paper An Essay on the Application of

Mathematical Analysis to the Theories of Electricity and Magnetism which is also the longest and perhaps the most

Important appeared In 1828 It introduced the term potential as designating the result obtained by adding together the

masses of all the particles of a system each divided by its distance from a given point Its three part treatment first considers

the properties of this function and then applies them in the second and third parts to the theories of magnetism and

electricity The following paper Mathematical Investigations concerning the Laws of the Equilibrium of Fluids analogous to

the Electric Fluid exhibits great analytical power as does the next On the Determination of the Exterior and Interior

Attractions of Ellipsoids of Variable Densities Other highlights include the brief but absorbing paper On the Motion of Waves

in a variable canal of small depth and width and two of his most valuable memoirs On the Laws of Reflexlon and Refraction of

Sound and On the Reflexlon and Refraction of Light at the common surface of two non crystallized Media which should be

studied together

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