



**A Course in Mathematical Analysis Volume 3:
Variation of Solutions; Partial Differential
Equations of the Second Order; Integral
Equations; Calculus of Variations (Dover Books on
Mathematics)**

Edouard Goursat

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Topics related to variations of solutions and partial differential equations of the second order include equations of Monge-Ampère; linear equations in n variables; linear equations of the hyperbolic and elliptic types; and harmonic functions in three variables. Subjects relevant to integral equations and calculus of variations include the solution of integral equations by successive approximations; Fredholm's equation; the fundamental functions; applications of integral equations; and the calculus of variations. The text concludes with a note on conformal representation by Paul Montel.

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