

5. (a) Describe the fundamental solution of heat equation.

(b) Prove that there exist at most one solution $u \in C_1^2(U_T)$ of the problem

$$u_t - \Delta u = f \text{ in } U_T$$

$$u = g \text{ on } \Gamma_T$$

where $U \in \mathbb{R}^n$ is open and bounded and ∂U is C^1 . The terminal time $T > 0$ is given.

6. (a) Find the solution of wave equation by spherical mean.

(b) Define energy method and prove the uniqueness of solution of wave equation.

SECTION – IV

7. (a) Describe the characteristic method for deriving the characteristic equation of the given non-linear first order partial differential equation :

$$F(Du, u, x) = 0 \text{ in } U, \text{ where } x \in U \subset \mathbb{R}^n$$

(b) State and derive Euler-Lagrange ordinary differential equation.

8. (a) The functions $\bar{x}(\cdot)$ and $\bar{p}(\cdot)$ satisfy Hamilton's equations :

$$\dot{\bar{x}}(s) = D_p H(\bar{p}(s), \bar{x}(s))$$

$$\dot{\bar{p}}(s) = -D_x H(\bar{p}(s), \bar{x}(s)), \quad (0 \leq s \leq t)$$

Prove that the mapping $s \rightarrow H(\bar{p}(s), \bar{x}(s))$ is constant.

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Handbook of Physical Testing of Paper Jens Borch, M. Bruce Lyne, Richard E. Mark, Charles Habeger, 2001-09-25 This handbook focuses on physical paper testing in the laboratory and online. Divided into five parts, it highlights assays for paper interactions with light, moisture, electricity, and heat. Topics expanded upon include laboratory testing procedures, microscopy analysis, and paper surface properties, liquid and gas penetration, electrical and thermal interactions, and methods of surface characterization. *Sessional Papers* Canada. Parliament, 1911. Report of the Dominion fishery commission on the fisheries of the province of Ontario 1893, issued as an addendum to vol 26 no 7. **Bibliography of Pulp and Paper Making**

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