

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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Mary-Lou E. Florian



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NAFTA and Sustainable Development Hoi L. Kong, L. Kinvin Wroth, 2015-08-07 This book assesses the current state of environmental protection under the North American Free Trade Agreement NAFTA Authors from all three member nations Canada Mexico and the United States analyze the agreements impact on such issues as bioengineered crops water policy climate change and indigenous rights

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Sigfred-Arminius and Other

Papers Guðbrandur Vigfússon, Frederick York Powell, 1886 **Paper and Timber** ,2004 *Senate documents* ,1895
The Lutheran Witness ,1930 **Abstract Bulletin of the Institute of Paper Chemistry** ,1989 **The American Printer** ,1916 *BTL Talks and Papers* Bell Telephone Laboratories, inc. Technical Information Libraries,1977 **Central Reporter...** ,1887 **The Northeastern Reporter** ,1900 Includes the decisions of the Supreme Courts of Massachusetts Ohio Indiana and Illinois and Court of Appeals of New York May July 1891 Mar Apr 1936 Appellate Court of Indiana Dec 1926 Feb 1927 Mar Apr 1936 Courts of Appeals of Ohio *Appita Journal* ,2007 American Practitioner and News ,1887
Paper Technology ,2008 **Nordic Pulp & Paper Research Journal** ,2008 Scanning Electron Microscopy ,1984
Vols for 1968 77 include the proceedings of the annual Scanning Electron Microscope Symposium sponsored by the IIT Research Institute and other workshops *Fungal Facts* Mary-Lou E. Florian,2002 Fungal Facts provides a basis for understanding and solving fungal problems in objects and collections

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