

SECTION - III

TARGET MDU



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 $U \subset \mathbb{R}^n$ 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.

Nd Sem Paper

RD Boyd

Nd Sem Paper:

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

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

Issues in Otorholaryngology, Audiology, and Speech Pathology Research and Practice: 2013 Edition

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The Microscopical News and Northern Microscopist

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Advanced Water Treatment Mika Sillanpää,2020-01-08 Advanced Water Treatment Adsorption discusses the application of adsorption in water purification The book reviews research findings on the preparation of five different nano microcellulose based adsorbents their characterization the study of adsorption kinetics and isotherms the determination of adsorption mechanisms and an evaluation of adsorbents regeneration properties The book describes modification microfibrillated cellulose MFC the use of succinic anhydride modified mercerized nanocellulose and aminosilane and hydroxyapatite modified nanostructured MFC for the removal of heavy metals from aqueous solutions Final sections describe the use of aminosilane epoxy and hydroxyapatite modified MFC as a promising alternative for H₂S removal from aqueous solutions along with new findings on the adsorption properties of carbonated hydroxyapatite modified MFC as multifunctional adsorbent for the removal of both cations and anions ions from water Includes the most recent research on advanced water treatment by adsorption Provides the latest updates on novel adsorbents for water purification Describes REE removal using various adsorbents Covers a wide range of methods and their integration

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
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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
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