

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.

Nd Sem Paper

Michael Seilmaier



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being aware that people at the bottom are those who with nothing to offer the network are excluded Castells arguments shows us how the new forms of network society offer challenges in a way that despite the disappearance of conventional ties exploitation marginalization exclusion and differentiation remain In what follows scholarships are invited to build an academic discussion on characterizing the structure and dynamics of societies in the world of the twenty first century Thus scholar may come to look at the meaning of being in a network society by examining the role of network society within the complexity of socio cultural political and economic circumstances in strengthening the role of science in overcoming local national regional and global problems But scientific research is also required to identify a wide variety of solutions to societal problems enhanced by the network society which no longer relate solely to a particular discipline but are multi and trans disciplinary In addition recent research has changed the traditional role of academia demanding more collaboration in the production of science not only among universities but also among researchers social practitioners and policymakers Considering these issues the fourth Asia Pacific Research in Social Sciences and Humanities APReSH will be hosted by the Faculty of Social and Political Sciences Universitas Indonesia FISIP UI in 2019 under the theme The Network Society Continuity and Change Scientific inputs from all parts of the world are welcome academically and practically Various perspectives based on mono disciplinary multi disciplinary or trans disciplinary research are expected to examine the problems and contribute to solutions Frank Leslie's Illustrated Newspaper John Albert Sleicher,1878 *Selected Papers from the 10th International Conference of the European Association of Southeast Asian Archaeologists* European Association of Southeast Asian Archaeologists. International Conference,2006 **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 absorbents for water purification Describes REE removal using various absorbents Covers a wide range of methods and their integration Abstract Bulletin of the Institute of Paper Chemistry ,1989 **The International Customs Journal** ,1975 **Announcement of Courses** New York State College of Forestry at Syracuse University,1930 Nordic Pulp & Paper Research Journal ,2008 Summaries of Papers Presented at the Conference on Lasers and

Electro-optics ,1996 **Papers and Addresses Presented at the Annual Meeting of the Technical Association of the Pulp and Paper Industry** ,1982 *Materials Issues in Art and Archaeology III* Pamela B. Vandiver,1992 **Studies in Anabaptist and Mennonite History** ,1980 Conference Papers Index ,1985 Monthly Papers presented at recent meeting held all over the world by scientific technical engineering and medical groups Sources are meeting programs and abstract publications as well as questionnaires Arranged under 17 subject sections 7 of direct interest to the life scientist Full programs of meetings listed under sections Entry gives citation number paper title name mailing address and any ordering number assigned Quarterly and annual indexes to subjects authors and programs not available in monthly issues

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