

### 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  $\partial U$  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

**Mika Sillanpää**

## 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

*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**

**1900-1928** Clarence Jay West,1929 **Announcement of Courses** New York State College of Forestry at Syracuse University,1930 Papers and Proceedings of the ... Annual Meeting American Association of University Instructors in Accounting. Meeting,1917 Bibliography of Pulp and Paper Making ,1929 Bibliography of Pulp and Paper Manufacture ,1929 Issues in Otorholaryngology, Audiology, and Speech Pathology Research and Practice: 2013 Edition ,2013-05-01 Issues in Otorholaryngology Audiology and Speech Pathology Research and Practice 2013 Edition is a ScholarlyEditions book that delivers timely authoritative and comprehensive information about Dysphagia The editors have built Issues in Otorholaryngology Audiology and Speech Pathology Research and Practice 2013 Edition on the vast information databases of ScholarlyNews You can expect the information about Dysphagia in this book to be deeper than what you can access anywhere else as well as consistently reliable authoritative informed and relevant The content of Issues in Otorholaryngology Audiology and Speech Pathology Research and Practice 2013 Edition has been produced by the world s leading scientists engineers analysts research institutions and companies All of the content is from peer reviewed sources and all of it is written assembled and edited by the editors at ScholarlyEditions and available exclusively from us You now have a source you can cite with authority confidence and credibility More information is available at <http://www.ScholarlyEditions.com>

**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

### **Paper Trade Journal** ,1927

**International Tables for Crystallography, Volume H** Christopher J. Gilmore,James A. Kaduk,Henk Schenk,2019-09-16 Die Pulverdiffraktion ist in der Kristallographie die am weitesten verbreitete Methode Die Anwendungen umfassen s mtliche Bereiche der Strukturwissenschaften Dieser neue Band aus der Reihe International Tables deckt alle Aspekte des Verfahrens in ber 50 Kapiteln ab Autoren sind Experten des Fachgebiets Dieser Band umfasst sieben Teile mit folgenden Inhalten berblick ber die Prinzipien der Pulverdiffraktion Erl uterung der bei der Pulverdiffraktion eingesetzten Strahlungsquellen Instrumente und Ausr stung Einsatz unterschiedlicher Probenumgebungen und Methoden der Probenvorbereitung Information zu Methoden einschlie lich Datenverarbeitung Indexierung und Reduktion Whole Pattern Modellierung und quantitative Analyse sowie berblick ber die relevanten Datenbanken der Kristallographie Fokus auf Strukturbestimmung

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**Heat and Power Engineering**, 1927 **Materials and Technologies for Energy Efficiency** A. Mendez-Vilas, 2015-10-15 Materials and Technologies for Energy Efficiency is a compilation of research papers whose main aim is to provide an opportunity to gather knowledge about the latest developments and advances in materials and processes involving energy This volume consists of a series of works which were presented at The Energy solar energy fuel cells energy storage etc The book is recommended for researchers from a broad range of academic disciplines related to energy and materials We hope that this set of papers would be useful to stimulate further discussion on energy and materials research *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 H<sub>2</sub>S 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 *Journal of Pulp and Paper Science*, 2005 **Sessional Papers of the Dominion of Canada** Canada. Parliament, 1922 Report of the Dominion fishery commission on the fisheries of the province of Ontario 1893 issued as vol 26 no 7 supplement **Report of Proceedings, with Papers Read Before the General Sessions, Departments and Round Table Conferences; and with Constitution and By-laws of the State Educational Association** Pennsylvania State Educational Association. Meeting, 1917 **Editor & Publisher**, 1914 **A Book of the Beginnings** Gerald

Massey,1881

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