



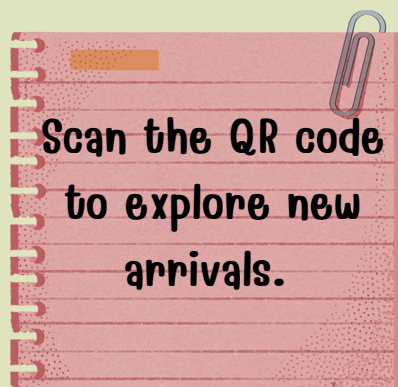
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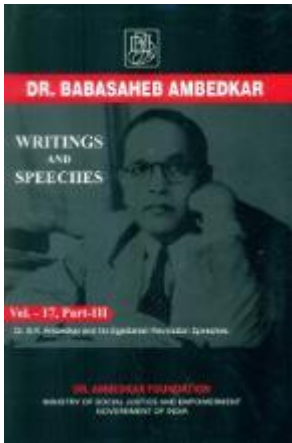
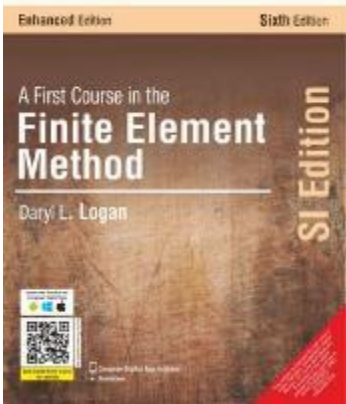
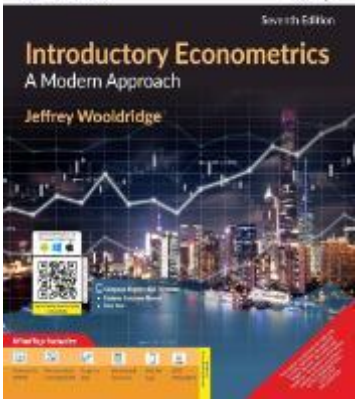
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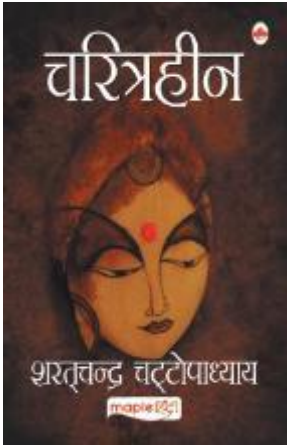
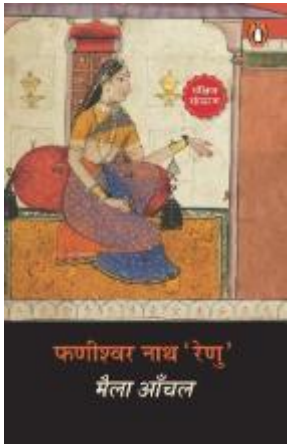

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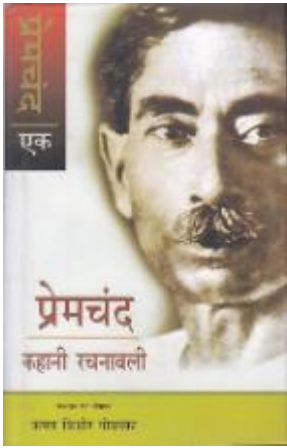
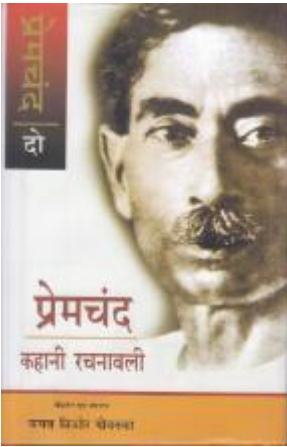
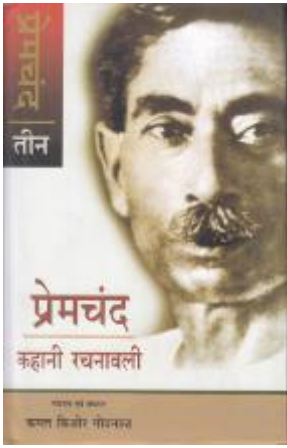
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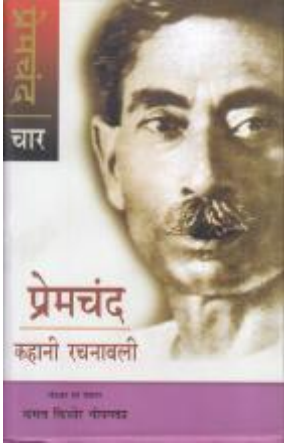
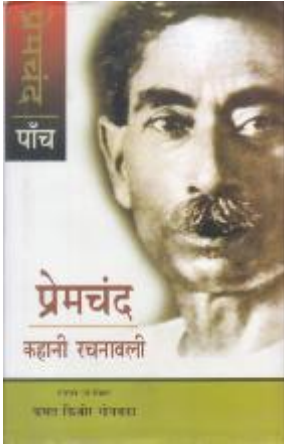
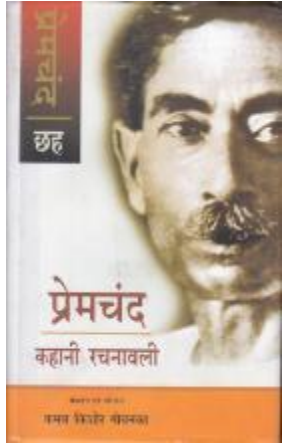
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2		<p>First course in the finite element method by Daryl L. Logan, New Delhi: Cengage, 2023. xvii, 953 p. Includes index (p. 938-953)</p> <p>ISBN: 9789353507855</p> <p>Subject Terms: Truss equations; Grid equations; Axisymmetric elements; Thermal stress; Plate bending element</p> <p>517.962 LOG-F</p> <p>Barcode: 181600-181602; TB</p> <p>Click here for more details.</p>
3		<p>Introductory econometrics: a modern approach by Jeffrey M. Wooldridge, New Delhi: Cengage, 2020. xxii, 826 p. Includes index (p. 812-826)</p> <p>ISBN: 9789355731074</p> <p>Subject Terms: Cross-sectional data; Heteroskedasticity; Panel data methods; Regression analysis; Time series data</p> <p>330.43 WOO-I</p> <p>Barcode: 181626-181628; TB</p> <p>Click here for more details.</p>

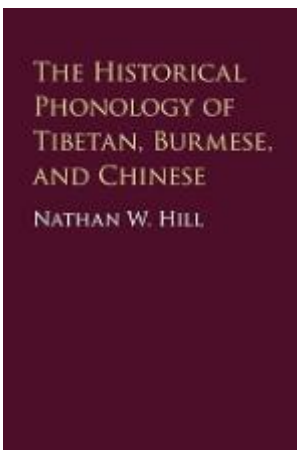
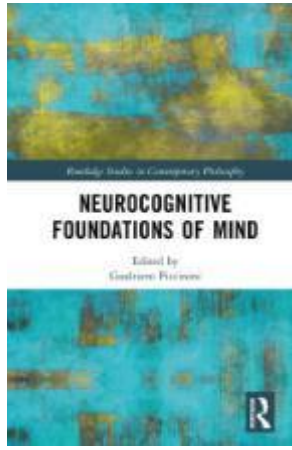

Hindi Cell

4		<p>Charitraheen (चरित्रहीन) by Sharat Chandra Chattopadhyay, Noida: Maple Press, 2024. 326 p.</p> <p>ISBN: 9789389643145</p> <p>Subject Terms: Indian literature; Bengali novel; Social novel; Psychological realism; Morality</p> <p>H 82-31 CHA-C</p> <p>Barcode: H432; CL</p> <p>Click here for more details.</p>
5		<p>Maila aanchal (मैला आँचल) by Phanishwarnath Renu, Gurugram: Penguin Random House, 2016. 186 p.</p> <p>ISBN: 9789353494995</p> <p>Subject Terms: Hindi literature; Hindi novel; Cultural identity; Rural India; Social realism</p> <p>H 82-31 PHA-M</p> <p>Barcode: H424; CL</p> <p>Click here for more details.</p>
6		<p>Naukar ki kameez (नौकर की कमीज) by Vinod Kumar Shukla, New Delhi: Rajkamal Prakashan, 2025. 247 p.</p> <p>ISBN: 9788126706891</p> <p>Subject Terms: Hindi novel; Indian literature; Modern Hindi fiction; Class struggle; Social inequality</p> <p>H 82-31 SHU-N</p> <p>Barcode: H425; CL</p> <p>Click here for more details.</p>
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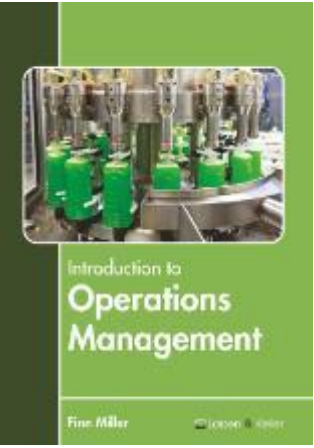
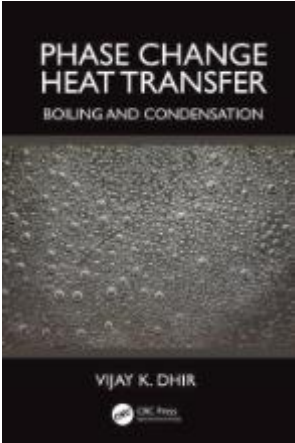
7		<p>Premchand (प्रेमचंद): kahani rachnavali (कहानी रचनावाली) by Premchand and edited by Kamal Kishore Goyanka, New Delhi: Sahitya Akademi, 2020. 560 p. Includes appendix and index (p. 543-560) vol. 1</p> <p>ISBN: 9788126029426</p> <p>Subject Terms: Hindi fiction; Short story anthology; Caste system; Social equality; Humanism</p> <p>H 82-32 PRE-P</p> <p>Barcode: H426; CL</p> <p>Click here for more details.</p>
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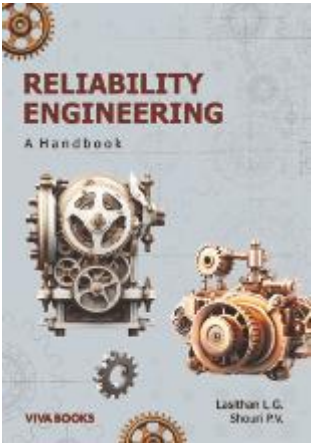
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Mechanical Engineering

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Title	:	Integrated groundwater modelling to investigate anthropogenic influences on hydrological fluxes
Researcher	:	Bhatnagar, Ishita
Department	:	Department of Civil and Environmental Engineering, IITD
Year	:	2025
Supervisor	:	Dhanya C. T. (Prof.) - CEE (Guide); Chahar, B. R. (Prof.) - CEE (Guide); Franssen, H. J. H. - Forschungszentrum Juelich, Germany (Guide)
Physical description	:	xxiii, 236 p.
Subject terms	:	Ground flow modelling; Data-limited environment; Mass-spring-damper model; Groundwater stress; Kinetics of groundwater rise
Barcode	:	TH8499
Call No.	:	TH 556.3 BHA-I
Title	:	Design and development of microenvironment facility for conducting emission exposure study on laboratory rats
Researcher	:	Kandpal, Abhishek
Department	:	Department of Mechanical Engineering, IITD
Year	:	2025
Supervisor	:	Dasgupta, Debabrata (Assoc. Prof.) - ME (Guide); Ray, Bahni (Assoc. Prof.) - ME (Guide); Patil, Asmita - AIIMS Delhi (Guide)
Physical description	:	xvii, 145 p.
Subject terms	:	Air pollution; Health implications; Gaseous pollution; Elemental carbon; Flow controlling and monitoring systems
Barcode	:	TH8500
Call No.	:	TH 614.71 KAN-D
Title	:	Role of kinetic Alfvén wave in turbulence generation in reconnection site of solar atmosphere
Researcher	:	Patel, Garima
Department	:	Department of Energy Science and Engineering, IITD
Year	:	2025
Supervisor	:	Uma, R. (Prof.) - ESE (Guide)

Physical description	:	xix, 188 p.
Subject terms	:	Solar plasma; Magnetic topologies; Solar wind; Electron acceleration; Parametric decay instability
Barcode	:	TH8501
Call No.	:	TH 532.59:523.9 PAT-R
Title	:	Unveiling organizational resilience: mapping pathways from antecedents to consequences
Researcher	:	Sethi, Meghna
Department	:	Department of Management Studies, IITD
Year	:	2025
Supervisor	:	Gupta, M. P. (Prof.) - MS (Guide); Sushil (Prof.) - MS (Guide)
Physical description	:	xxxi, 512 p.
Subject terms	:	Upper echelons theory; Dynamic capabilities view; Conservation of resources; COVID-19 pandemic; Technological capabilities
Barcode	:	TH8502
Call No.	:	TH 005.521 SET-U
Title	:	On-chip rare-earth doped waveguide laser and amplifier for photonic integrated circuits
Researcher	:	Vaid, Harsh
Department	:	Department of Electrical Engineering, IITD
Year	:	2025
Supervisor	:	Choudhary, Amol (Assoc. Prof.) - EE (Guide)
Physical description	:	xxii, 127 p.
Subject terms	:	Optical waveguides; Effective index method; Erbium-doped fiber amplifier; Waveguide geometry; Wavelength division multiplexing
Barcode	:	TH8503
Call No.	:	TH 621.372.8:621.375 VAI-O
Title	:	Smartphone-assisted colorimetric study using machine learning for point-of care applications
Researcher	:	Bhatt, Sunita
Department	:	Centre for Sensors, Instrumentation and Cyber Physical System Engineering, IITD
Year	:	2025
Supervisor	:	Dubey, Satish Kumar (Assoc. Prof.) - SeNSE (Guide)
Physical description	:	xxix, 147 p.
Subject terms	:	Portable PoC diagnostic systems; Deep learning models; Smartphone assisted diagnostic reader; Domain generalization model; Chronic kidney disease
Barcode	:	TH8504
Call No.	:	TH 004.85:543.422.7 BHA-S

Title	:	Physics and applications of electrohydrodynamic jets of polymeric solutions
Researcher	:	Choubey, Anupam
Department	:	Department of Mechanical Engineering, IITD
Year	:	2025
Supervisor	:	Bahga, Supreet Singh (Prof.) - ME (Guide)
Physical description	:	xxxvi, 413 p.
Subject terms	:	Electrohydrodynamic jet printing; Taylor cone-jet; Conventional lithographic techniques; Micro lens arrays; Microfabrication of microfluidic devices
Barcode	:	TH8505
Call No.	:	TH 681.62.067 CHO-P

Title	:	Total coloring of graphs
Researcher	:	Dalal, Aseem
Department	:	Department of Mathematics, IITD
Year	:	2025
Supervisor	:	Panda, Bhawani Sankar (Prof.) - MA (Guide)
Physical description	:	xviii, 164 p.
Subject terms	:	Total chromatic number; Graphs having triangle-free core; Equitable edge-colorings; Matchings technique; Complete multipartite graphs
Barcode	:	TH8506
Call No.	:	TH 519.17 DAL-T

Title	:	Development of diatom-based nano bio-pesticide for crop and grain pest control
Researcher	:	Dhali, Sumit
Department	:	Centre for Rural Development and Technology, IITD
Year	:	2025
Supervisor	:	Malik, Anushree (Prof.) - CRDT (Guide); Sharma, Satyawati (Prof.) - CRDT (Guide); Raliya, Ramesh (Prof.) - CRDT (Guide)
Physical description	:	xxxviii, 300 p.
Subject terms	:	Hydrothermal liquefaction methods; Fourier transform infrared spectroscopy; Thermogravimetric analysis; Field emission scanning electron microscopy; Energy dispersive spectroscopy
Barcode	:	TH8507
Call No.	:	TH 632.95:620.3 DHA-D

Title	:	Optimizing deep learning models for resource constrained environments
Researcher	:	Dutta, Oshin
Department	:	Department of Electrical Engineering, IITD

Year	:	2025
Supervisor	:	Agarwal, Sumeet (Assoc. Prof.) - EE (Guide); Prathosh A. P. (Asst. Prof.) - EE (Guide)
Physical description	:	xxvi, 181 p.
Subject terms	:	Neural architecture search; Large language models; Variational information bottleneck; Knowledge distillation methods; BERT-based models
Barcode	:	TH8508
Call No.	:	TH 004.89 DUT-O
Title	:	Study on the zeros of poincare series and applications
Researcher	:	Kala, Divyanshu
Department	:	Department of Mathematics, IITD
Year	:	2025
Supervisor	:	Saha, Ekata (Prof.) - MA (Guide)
Physical description	:	xvii, 133 p.
Subject terms	:	Algebraic relations; Linear combinations; Eisenstein series; Poincare cusp forms; Separation properties
Barcode	:	TH8509
Call No.	:	TH 515.143 KAL-S
Title	:	Optimization of electron bunch quality in laser Wakefield acceleration in bubbles domain
Researcher	:	Mohit Kumar
Department	:	Department of Physics, IITD
Year	:	2025
Supervisor	:	Sandeep Kumar - Manav Rachna University Faridabad (Guide); Malik, Hitendra K. (Prof.) - PH (Guide)
Physical description	:	xxi, 109 p.
Subject terms	:	Plasma Wakefield acceleration; Plasma bubble; Portable X-ray sources; Gaussian laser beam; Electron energy gain
Barcode	:	TH8510
Call No.	:	TH 621.384.6 MOH-O
Title	:	Response of shear thickening fluids impregnated fabrics for soft body armor
Researcher	:	Nitin Kumar
Department	:	Department of Chemical Engineering, IITD
Year	:	2025
Supervisor	:	Pattanayek, Sudip K. (Prof.) - CHE (Guide); Ghosh, Anup K. (Prof.) - MSE (Guide); Majumdar, Abhijit (Prof.) - TFE (Guide)
Physical description	:	xxi, 136 p.
Subject terms	:	Discrete element methods; Polyethylene glycol; Friction contact theory; Nano silica; Hydro clustering

Barcode	:	TH8511
Call No.	:	TH 623.445.1 NIT-R
Title	:	Optical metrology using transport of intensity phase retrieval
Researcher	:	Pandey, Neeraj
Department	:	Department of Physics, IITD
Year	:	2025
Supervisor	:	Khare, Kedar (Prof.) - PH (Guide)
Physical description	:	151 p.
Subject terms	:	Interferometry; Transport of intensity equation; Optical coherence tomography; Iterative phase retrieval; Shack-Hartmann sensor
Barcode	:	TH8512
Call No.	:	TH 535.241 PAN-O
Title	:	Design and analysis of a single-conductor wireless power transfer system
Researcher	:	Parajuli, Santosh
Department	:	Centre for Applied Research in Electronics, IITD
Year	:	2025
Supervisor	:	Gupta, Ankur (Assoc. Prof.) - CARE (Guide)
Physical description	:	xxi, 145 p.
Subject terms	:	Single-conductor wireless power transfer; High-frequency structure simulator; Semi-open primary coil design; Surface wireless power transfer; Self-resonance frequency
Barcode	:	TH8513
Call No.	:	TH 621.3.05 PAR-D
Title	:	Exploring layered and mixed polyanionic cathode materials for stable sodium-ion batteries
Researcher	:	Pati, Jayashree
Department	:	Department of Physics, IITD
Year	:	2025
Supervisor	:	Dhaka, Rajendra S. (Prof.) - PH (Guide)
Physical description	:	xx, 190 p.
Subject terms	:	Electric vehicles; Transmission Electron microscopy; Raman spectroscopy; Energy dispersive X-ray spectroscopy; Electrochemical characterisation
Barcode	:	TH8514
Call No.	:	TH 544.076.3 PAT-E
Title	:	Virulence-associated small RNA MTS1338 in mycobacterium tuberculosis: regulation of its expression and its function in vivo

Researcher	:	Reena
Department	:	School of Interdisciplinary Research, IITD
Year	:	2025
Supervisor	:	Inampudi, Krishna Kishore - AIIMS Delhi (Guide); Dutta, Tanmay (Assoc. Prof.) - CHY (Guide)
Physical description	:	xvi, 117 p.
Subject terms	:	Electrophoretic mobility shift assay; Polymerase chain reaction; Micro scale thermophoresis; Agarose gel electrophoresis; Reactive oxygen species
Barcode	:	TH8515
Call No.	:	TH 579.873.2:616-002.5 REE-V
Title	:	High resolution site characterization (HRSC) based framework for contamination assessment at MSW dumpsites
Researcher	:	Singh, Pranjali
Department	:	Department of Civil and Environmental Engineering, IITD
Year	:	2025
Supervisor	:	Ramana, G. V. (Prof.) - CEE (Guide); Datta, Manoj (Prof.) - CEE (Guide)
Physical description	:	xxxii, 219 p.
Subject terms	:	Geochemistry; Piezocone; Electrical conductivity probe; Groundwater vulnerability score; Direct push injection logger
Barcode	:	TH8516
Call No.	:	TH 628.46:504.5 SIN-H

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