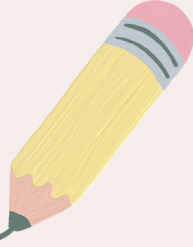


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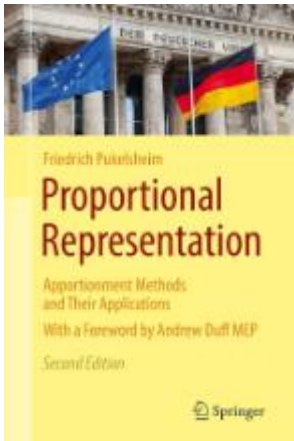
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CONTENTS

Departments/Centres/School/Units	Page No.
Computer Science and Engineering	2
Gratis	2
Hindi Cell	2
Management Studies	16
Theses Collections	17

Computer Science and Engineering

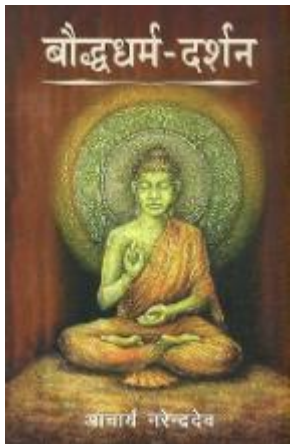
1		Proportional representation: apportionment methods and their applications by Friedrich Pukelsheim, 2nd ed. Cham: Springer, 2017. xxvii, 342 p. Includes references and index (p. 331-342) ISBN: 9783319647067 Subject Terms: Apportionment methodology; Electoral system design; European parliament; Double proportionality; Game theory 328:511.13 PUK-P Barcode: 181597-181598; CL; CSE Click here for more details.
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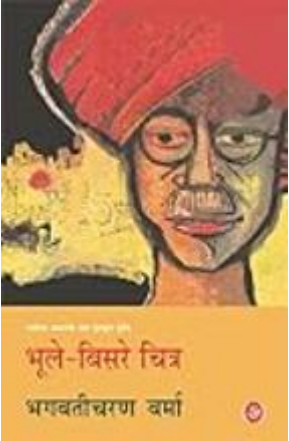
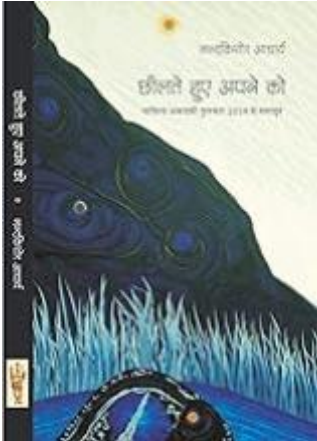
Gratis

2		Forging new frontiers for libraries: fostering exploration, innovation, evolution and transformation edited by Sangeeta Kaul, Pavan Shrikishan Sharma and Dandawate, [28th National convention on knowledge, library and information networking (NACLIN 2025) Hotel Lemon Tree Premier, Pune December 3-5, 2025] New Delhi: DELNET - Developing Library Network, 2025. xvi, 168 p. Includes references (p. 167-1678) ISBN: 9789382735182 Subject Terms: Artificial intelligence; Research information management; Emerging technologies; Digital libraries; Library innovation CD 021.6(063) -NAT Barcode: G24103; CL Click here for more details.
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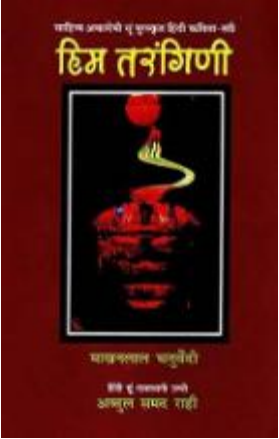
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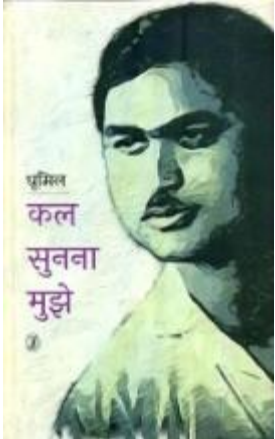
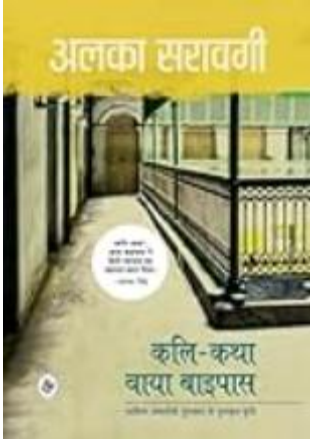
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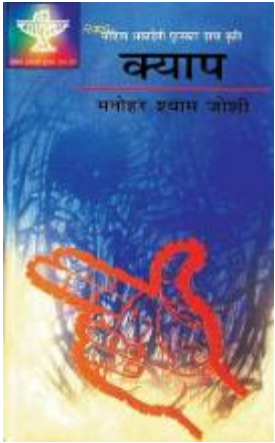
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		Back to Content

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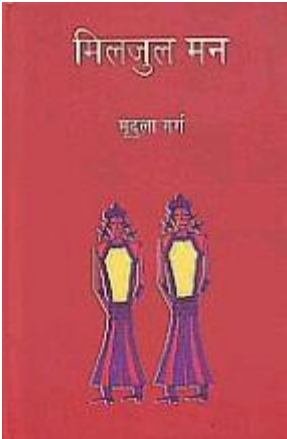
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		Back to Content

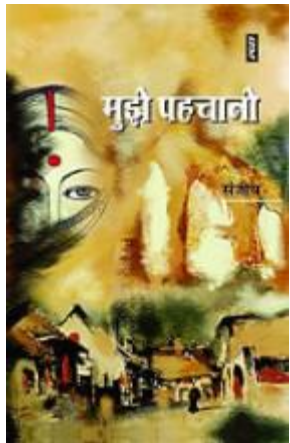
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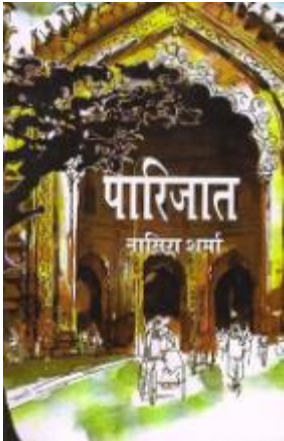
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		Back to Content

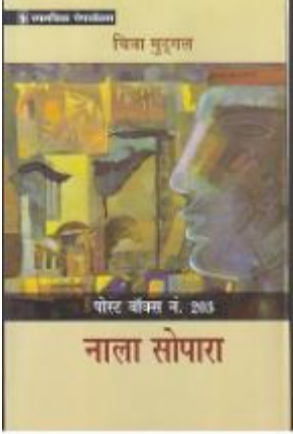
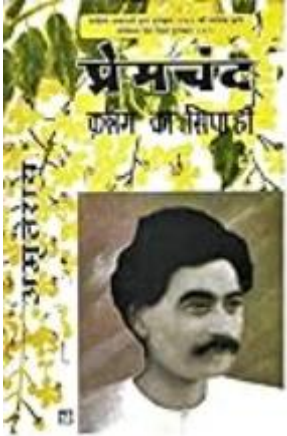
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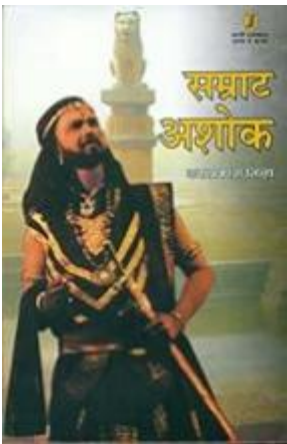
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		Back to Content

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Management Studies		
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Subject terms	:	Sensitivity analysis; Graphical user interface; Decision tree regression; Support vector regression; Deep neural network
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Call No.	:	TH 532.5:004.9 BER-M
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Researcher	:	Chakraborty, Sibashish
Department	:	Centre for Sensors, Instrumentation and Cyber Physical Systems Engineering, IITD
Year	:	2025
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Physical description	:	xix, 137 p.
Subject terms	:	Atomic force microscopy; Chemical enhancement; Leuco-malachite green; Finite element method; Transmission electron microscopy
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Call No.	:	TH 543.424.2:620.3 CHA-D

Title	:	Improving machinability of Nimonic 90 alloy using indigenously developed coated carbide tools under different cutting environments
Researcher	:	Gaurav Kumar
Department	:	Department of Mechanical Engineering, IITD
Year	:	2025
Supervisor	:	Ghosh, Sudarsan (Prof.) - ME (Guide); Rao, P. Venkateswara (Prof.) - ME (Guide)
Physical description	:	xxiv, 209 p.
Subject terms	:	Superalloys; Compressed air; Chromium; Dynamic light scattering; Minimum quantity lubrication
Barcode	:	TH8467
Call No.	:	TH 667.6:669.055 GAU-I
Title	:	Study of hydrodynamic riverbed scour around bridge piers - perspective based on lagrangian coherent structures
Researcher	:	Kalidindi Murali Krishnam Raju
Department	:	Department of Civil Engineering, IITD
Year	:	2025
Supervisor	:	Khosa, Rakesh (Prof.) - CE (Guide); Jha, K. N. (Prof.) - CE (Guide)
Physical description	:	xxviii, 223 p.
Subject terms	:	Primary horseshoe vortex; Shear layer; Turbulent kinetic energy; Large eddy simulation; Renormalized group
Barcode	:	TH8468
Call No.	:	TH 626/627 KAL-S
Title	:	Parameterized and approximation algorithms for graph problems
Researcher	:	Mandal, Soumen
Department	:	Department of Mathematics, IITD
Year	:	2025
Supervisor	:	Rai, Ashutosh (Asst. Prof.) - MA (Guide)
Physical description	:	xvii, 202 p.
Subject terms	:	Branching algorithm; Pathwidth; Treewidth; Bi-criteria approximations; Kernel parameterized
Barcode	:	TH8469
Call No.	:	TH 519.17:004.42 MAN-P
Title	:	Compact wideband filtering antennas
Researcher	:	Paul, Vijoyatry
Department	:	Centre for Applied Research in Electronics, IITD

Year	:	2025
Supervisor	:	Dhwaj, Kirti (Asst. Prof.) - CARE (Guide)
Physical description	:	xvii, 104 p.
Subject terms	:	Wireless communication; Reflectionless filtering; Quadrature hybrid coupler; LP patch resonator; Coupling model response
Barcode	:	TH8470
Call No.	:	TH 621.396.67 PAU-C
Title	:	Mini-max framework for majorization minimization algorithms in signal processing applications
Researcher	:	Saini, Astha
Department	:	Centre for Applied Research in Electronics, IITD
Year	:	2025
Supervisor	:	Prabhu Babu (Assoc. Prof.) - CARE (Guide)
Physical description	:	xviii, 217 p.
Subject terms	:	Conjugate function; Phase retrieval; RSS model; Dual-function beamforming design; Charge coupled device
Barcode	:	TH8471
Call No.	:	TH 621.391:004.42 SAI-M
Title	:	Study of correlation between field emission properties and electronic structure of vertically aligned carbon nanotube based hybrids
Researcher	:	Saini, Shubham
Department	:	Department of Physics, IITD
Year	:	2025
Supervisor	:	Srivastava, Pankaj (Prof.) - PH (Guide); Ghosh, Santanu (Prof.) - PH (Guide)
Physical description	:	xviii, 138 p.
Subject terms	:	Chemical vapour deposition; Kelvin probe force microscopy; Energy dispersive x-ray; Nanometallic decoration; Morphology
Barcode	:	TH8472
Call No.	:	TH 621.315.56:620.3 SAI-S
Title	:	Rainfall thresholds and hazard assessment of landslides in higher Himalayan crystalline rocks of Karewa Basin, J&K, India
Researcher	:	Singh, Ankit
Department	:	Department of Civil Engineering, IITD
Year	:	2025
Supervisor	:	Ayothiraman, R. (Prof.) - CEE (Guide)
Physical description	:	xl, 373 p.

Subject terms	:	Akaike's information criteria; Bureau of Indian Standards; Muth quartzite; Google earth; Cross-polarized light
Barcode	:	TH8473
Call No.	:	TH 624.131.537(540.11) SIN-R
Title	:	Study of sustainable development goals (SDGs) in India
Researcher	:	Singh, Shailendra Kumar
Department	:	Department of Management Studies, IITD
Year	:	2025
Supervisor	:	Sharma, Seema (Prof.) - MS (Guide)
Physical description	:	xx, 209 p.
Subject terms	:	Budget allocation; Conjoint analysis; Non-government organisation; Intergovernmental panel on climate change; United Nations
Barcode	:	TH8474
Call No.	:	TH 502.131.1(540) SIN-S
Title	:	Defining equations of the Rees algebra of ideals
Researcher	:	Suraj Kumar
Department	:	Department of Mathematics, IITD
Year	:	2025
Supervisor	:	Mukundan, Vivek (Asst. Prof) - MA (Guide)
Physical description	:	xiv, 178 p.
Subject terms	:	Hilbert-Burch theorem; Symmetric algebra; Jacobian dual; Serre's condition; Cohen-Macaulay ideals
Barcode	:	TH8475
Call No.	:	TH 512.543.7 SUR-D
Title	:	Robust efficient algorithms for sensing applications
Researcher	:	Varshney, Piyush
Department	:	Centre for Applied Research in Electronics, IITD
Year	:	2025
Supervisor	:	Prabhu Babu (Assoc. Prof) - CARE (Guide)
Physical description	:	xviii, 207 p.
Subject terms	:	Analog to digital; Direct sequence spread spectrum; High power amplifier; Sample covariance matrix; Semidefinite programming
Barcode	:	TH8476
Call No.	:	TH 681.586:004.42 VAR-R

Title	:	Feasibility of coal mine overburden as backfill material for mechanically stabilised earth (MSE) wall supporting high speed train
Researcher	:	Verma, Harshal
Department	:	IIT Delhi and University of Queensland
Year	:	2025
Supervisor	:	Manna, Bappaditya (Prof.) - CEE (Guide); Williams, David - University of Queensland, Australia (Guide); Mishra, Partha Narayan - University of Queensland, Australia (Guide)
Physical description	:	xxxvi, 336 p.
Subject terms	:	Artificial intelligence; Acid mine drainage; Artificial neural network; Hypoplastic soil model; Machine learning
Barcode	:	TH8477
Call No.	:	TH 625.114 VER-F

[Back to Content](#)