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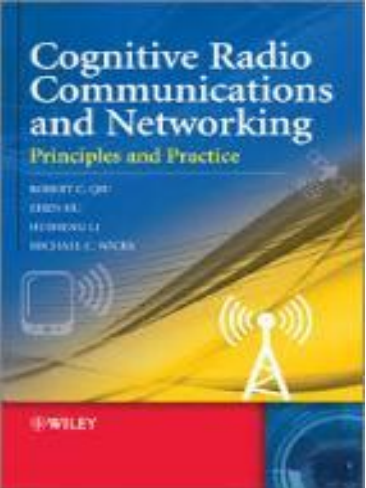
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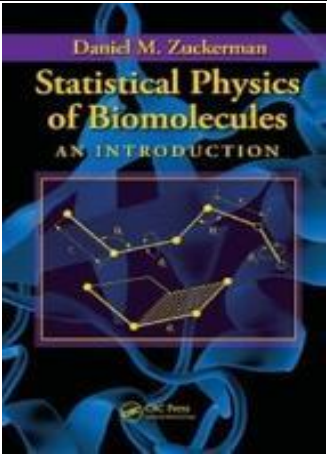
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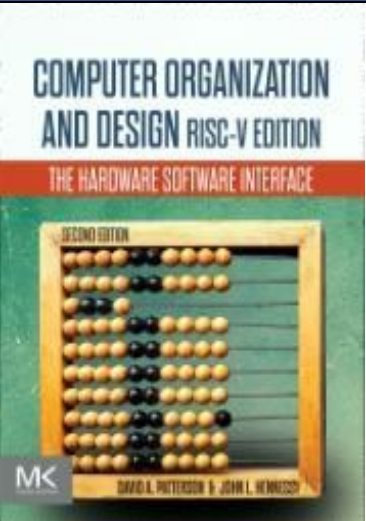
Bharti School of Telecommunication Technology and Management

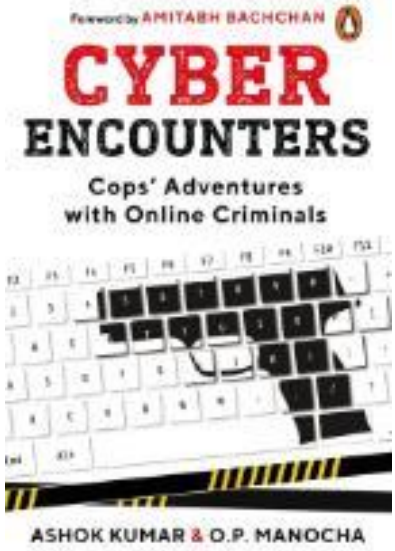
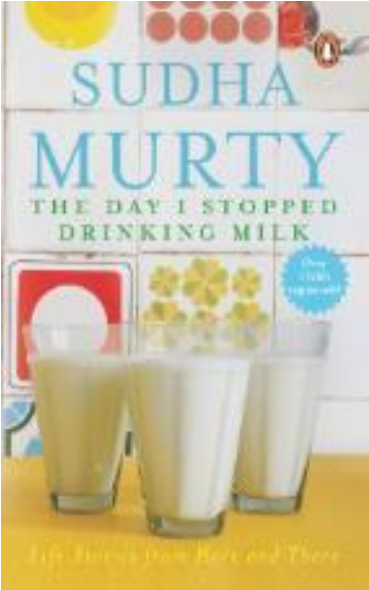
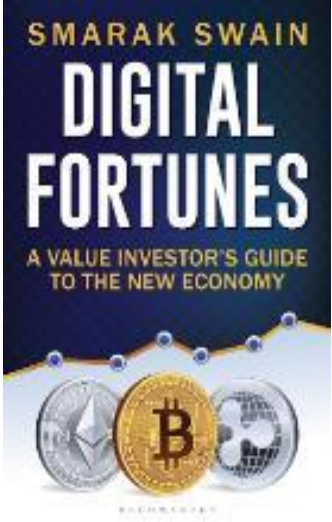
1		<p>Cognitive radio communications and networking: principles and practice by Robert C. Qiu...(et al.), Chichester: Wiley, 2012. xx, 514 p. Includes reference and index (p. 453-514)</p> <p>ISBN: 9780470972090</p> <p>Subject Terms: Convex optimization; Machine learning; Spectrum sensing; Random matrices; Game theory</p> <p>621.396 -COG</p> <p>Barcode: 180614; BSTTM</p> <p>Click here for more details.</p>

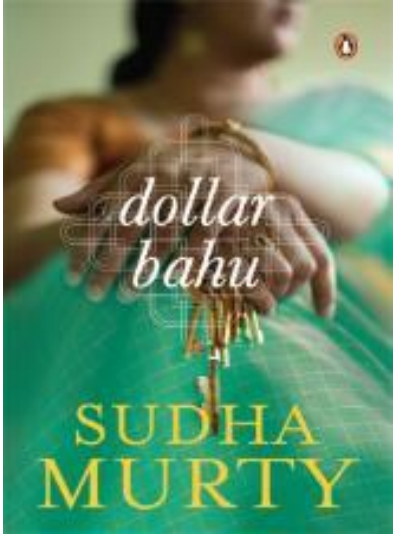
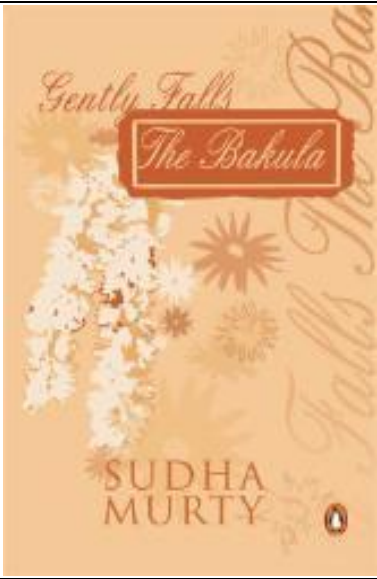

Biochemical Engineering & Biotechnology

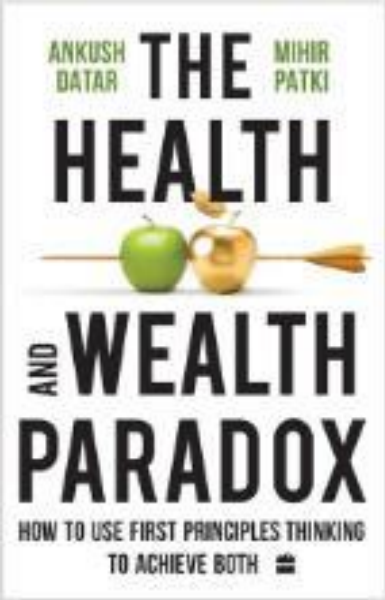
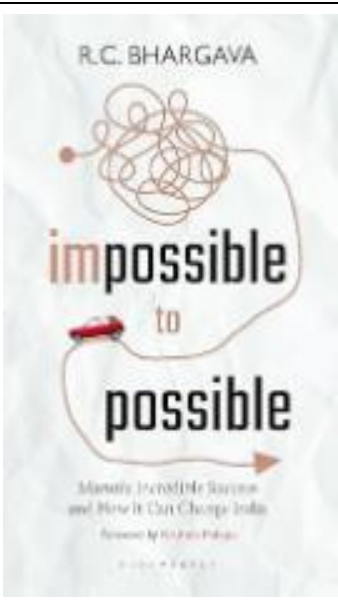
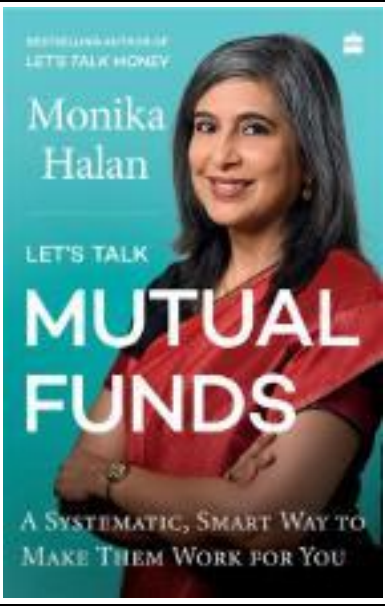
2		<p>Statistical physics of biomolecules: an introduction by Daniel M. Zuckerman, Boca Raton: CRC Press, 2010. xxi, 334 p. Includes index (p. 325-334)</p> <p>ISBN: 9781138051577</p> <p>Subject Terms: Computational biology; Biophysics; Entropy; Biomolecular simulation; Probability theory</p> <p>577.1:531.19 ZUC-S</p> <p>Barcode: 180605; TB</p> <p>Click here for more details.</p>

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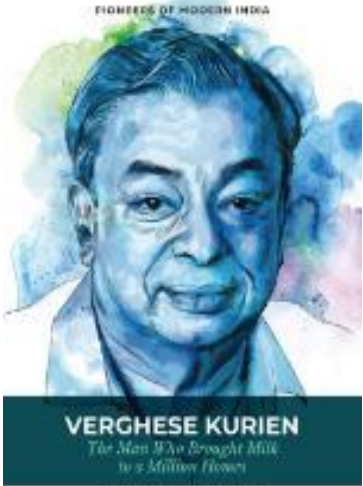
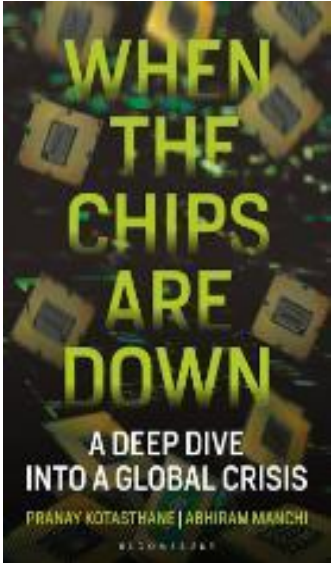
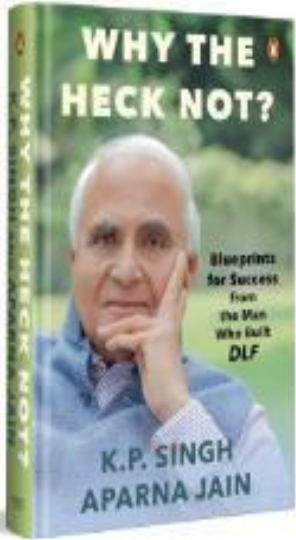
3		<p>Computer organization and design: the hardware software interface by David A. Patterson and John L. Hennessy, 2nd ed., Cambridge: Elsevier, 2021. xx, 602 p. Include index</p> <p>ISBN: 9780128203316</p> <p>Subject Terms: Language of computer; Arithmetic for computer; Logic design; GPU system; Mapping control</p> <p>681.3 PAT-C</p> <p>Barcode: 180602-180604; CL; TB</p> <p>Click here for more details.</p>
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4		<p>Cyber encounters:cops' adventures with online criminals by Ashok Kumar and O. P. Manocha, Gurugram: Penguin Random House, 2023. xvii, 198 p.</p> <p>ISBN: 9780143460275</p> <p>Subject Terms: Digital technologies; Cyberspace; Criminals; Sextortion; Lottery</p>
		343.8:004 ASH-C
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5		<p>Day I stopped drinking milk by Sudha Murty, Gurugram: Penguin Random House, 2012. x, 212 p.</p> <p>ISBN: 9780143418658</p> <p>Subject Terms: Sticky bottoms; Wellness; Miserable success; Lifestyle change; Health</p>
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6		<p>Digital fortunes:a value investor's guide to the new economy by Smarak Swain, New Delhi: Bloomsbury, 2024. xiv, 215 p. Includes index (p. 209-215)</p> <p>ISBN: 9789354354045</p> <p>Subject Terms: Platform economics; Platform vulnerabilities; Crypto evangelism; Crypto elitism; Think networks</p>
		336.76 SWA-D
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7		<p>Dollar bahu by Sudha Murty, Gurugram: Penguin Random House, 2007. 142 p.</p> <p>ISBN: 9780143103769</p> <p>Subject Terms: Short stories; Literature; Family drama; Novels; Fiction</p> <hr/> <p>82-31 MUR-D</p> <hr/> <p>Barcode: 180599; CL</p> <hr/> <p>Click here for more details.</p>
8		<p>Gently falls the bakula by Sudha Murty, Gurugram: Penguin Random House, 2008. 169 p.</p> <p>ISBN: 9780143103776</p> <p>Subject Terms: Novel; Hindi literature; Short stories; Marriage story; Aspirations</p> <hr/> <p>82-31 MUR-G</p> <hr/> <p>Barcode: 180600; CL</p> <hr/> <p>Click here for more details.</p>
9		<p>Go further, faster:shaping a life that matters by Lulu Raghavan, New Delhi: Bloomsbury, 2024. xx, 224 p. Includes index (p. 221-224)</p> <p>ISBN: 9789356405578</p> <p>Subject Terms: Self motivation; Time management; Restful sleep; Empathy; Professional relationship</p> <hr/> <p>159.947.3 RAG-G</p> <hr/> <p>Barcode: 180627; CL</p> <hr/> <p>Click here for more details.</p>
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10		<p>Health and wealth paradox:how to use first principles thinking to achieve both by Ankush Datar and Mihir Patki, Gurugram: HarperCollins Publishers, 2024. xviii, 252 p.</p> <p>ISBN: 9789365695571</p> <p>Subject Terms: Health science; Physical fitness; Nutrition; Life goals; Food plan</p> <hr/> <p>658.15:613 DAT-H</p> <hr/> <p>Barcode: 180624; CL</p> <hr/> <p>Click here for more details.</p>
11		<p>Impossible to possible:Maruti's incredible success and how it can change India by R. C. Bhargava, New Delhi: Bloomsbury, 2024. xvi, 220 p. Includes index (p. 215-220)</p> <p>ISBN: 9789356405301</p> <p>Subject Terms: Management systems; Recruiting team; Training and motivation; Competitiveness; Partnership</p> <hr/> <p>658.5/.8 BHA-I</p> <hr/> <p>Barcode: 180613; CL</p> <hr/> <p>Click here for more details.</p>
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13		<p>Own your body:a doctor's life-saving tips by Shiv Sarin, New Delhi: Bloomsbury, 2024. xix, 321 p. Includes index (p.311-321)</p> <p>ISBN: 9789356400306</p> <p>Subject Terms: Medicine; Popular case studies; Medicine preventive; Health and fitness; Longevity</p>
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14		<p>Routledge companion to libraries, archives, and the digital humanities edited by Isabel Galina Russell and Glen Layne-Worthey, Abingdon: Routledge, 2025. xxii, 524 p., - Routledge companions to the digital humanities. Includes index (p. 509-524)</p> <p>ISBN: 9781032356259</p> <p>Subject Terms: Information science; Digital collections; Text mining; Digital preservation; Linked open data</p>
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15		<p>She is: women in chemistry by ElsaMarie D'Silva and Supreet K. Singh, Mumbai: Notion Press, 2024. 181 p.</p> <p>ISBN: 9798893229639</p> <p>Subject Terms: Women; Equality; Diversity; Empowerment; Career development</p>
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16		<p>Vergheese Kurien:the man who brought milk to a million homes by M. S. Meenakshi, New Delhi: Niyogi Books, 2024. 174 p. Includes references</p> <p>ISBN: 9789391125981</p> <p>Subject Terms: Milkman of India; White revolution; Dairy management; Operation flood; Man and his vision</p> <p>929KUR MEE-V</p> <p>Barcode: 180626; CL</p> <p>Click here for more details.</p>
17		<p>When the chips are down:a deep dive into a global crisis by Pranay Kotasthane and Abhiram Manchi, New Delhi: Bloomsbury, 2023. x, 195 p. Includes references and index (p. 173-195)</p> <p>ISBN: 9789356402461</p> <p>Subject Terms: Semiconductors; Wars over chips; Supply chain; Meta-critical technology; Chip shortage</p> <p>327:621.382 KOT-W</p> <p>Barcode: 180628; CL</p> <p>Click here for more details.</p>
18		<p>Why the heck not?:blueprints for success from the man who built DLF by K. P. Singh and Aparna Jain, Gurugram: Penguin Random House, 2024. xxiii, 321 p. Includes index (p.309-321)</p> <p>ISBN: 9780143472889</p> <p>Subject Terms: DLF limited biography; DLF limited history; Biographies; Real estate developers; Young sport</p> <p>17.024.4 SIN-W</p> <p>Barcode: 180621; CL</p> <p>Click here for more details.</p>

Computer Science and Engineering


19		<p>Computability and logic by George S. Boolos, John P. Burgess and Richard C. Jeffrey, 5th ed., Cambridge: Cambridge University Press, 2007. xiii, 350 p. Includes bibliography and index (p. 341-350)</p> <p>ISBN: 9780521701464</p> <p>Subject Terms: Abacus computability; Computable functions; Algorithm; Sequent calculus; Ramsey's theorem</p>
		510.5 BOO-C
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20		<p>Foundations of cryptography:basic tools by Oded Goldreich, New Delhi: Cambridge University Press, 2024. xx, 372 p. Includes bibliography and index (p. 355-372)</p> <p>ISBN: 9780521670524</p> <p>Subject Terms: Averaging argument; Computer coding technologies; Coding theory; Data security; Computational number theory</p>
		681.188 GOL-F
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21		<p>Fundamentals of computer graphics by Steve Marschner and Peter Shirley, 5th ed., Boca Raton: CRC Press, 2022. xv, 700 p. Includes reference and index (p. 681-700)</p> <p>ISBN: 9781032122861</p> <p>Subject Terms: Ray tracing; Signal processing; Texture mapping; Computer animation; Visual perception</p>
		681.3:744 MAR-F
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22		Introduction to languages and the theory of computation by John C. Martin, 2nd ed., New York: McGraw Hill Companies, 1997. xiv, 450 p., - McGraw-Hill series in computer science. Includes bibliography and index (p. 438-450)
		ISBN: 9780071154680
		Subject Terms: Algebra; Sets; Logic; Computational complexity; Lemma theorem
		51-3:004 MAR-I
		Barcode: 180575-180576; CL; CSE
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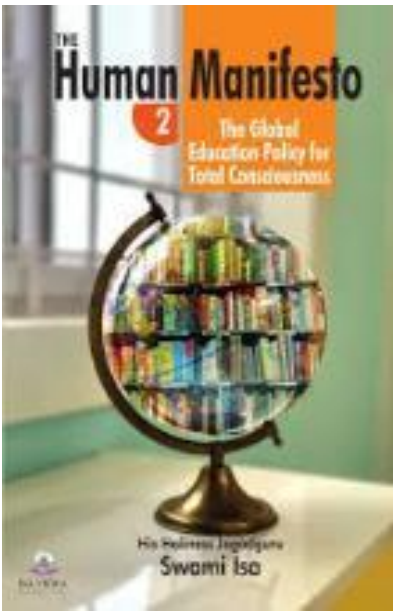
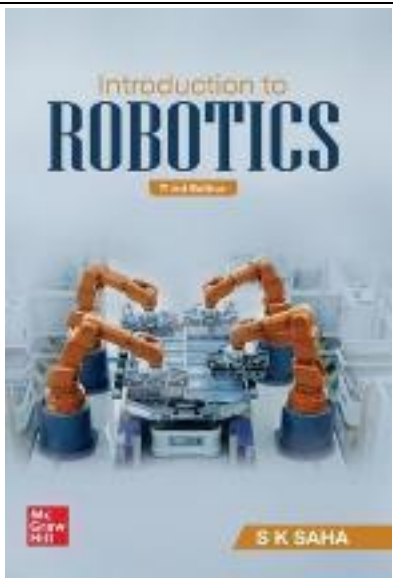
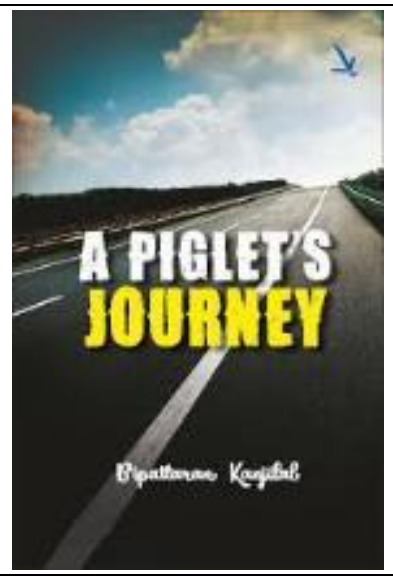
23		Logic in computer science: modelling and reasoning about systems by Michael Huth and Mark Ryan, 2nd ed., Cambridge: Cambridge University Press, 2018. xiv, 427 p. Includes bibliography and index (p. 414-427)
		ISBN: 9780521543101
		Subject Terms: Propositional logic; Predicate logic; Semantics of CTL; Micromodels of software; Binary decision
		004:510.6 HUT-L
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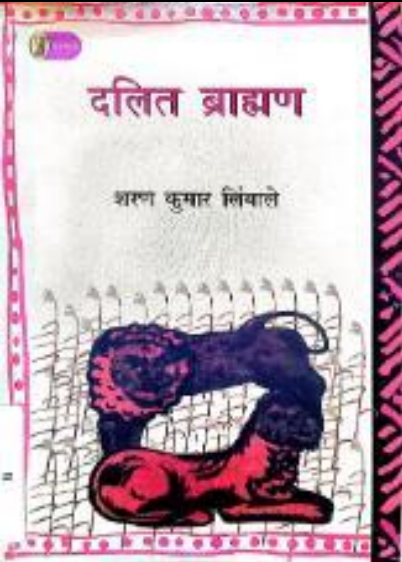
Gratis

24		Generalized characteristics of first order PDEs: applications in optimal control and differential games by A. A. Melikyan, Boston: Birkhauser, 1998. xiv, 310 p. Includes bibliography and index (p. 301-310)
		ISBN: 9780817639846
		Subject Terms: Geometrical formulation; Variation calculus; Dispersal surface; Bellman equation; Quadratic lagrangian
		517.944 MEL-G
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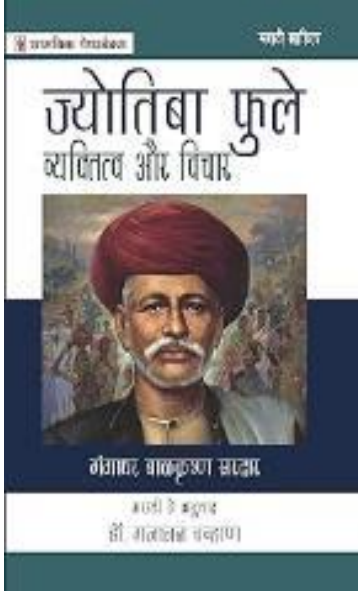

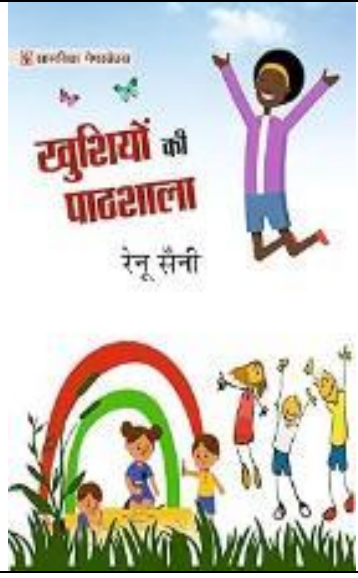
25		<p>Human manifesto:part 2- the global education policy for total consciousness by Swami Isa, Thiruvananthapuram: Isa Viswa Prajnana Trust, 2022. 247 p. Includes reference (p. 244-247)</p> <p>ISBN: 9788195881505</p> <p>Subject Terms: Scientific knowledge; Pedagogy; Learning from nature; Teacher training; Educational institutions</p> <p>37.014 ISA-H</p> <p>Barcode: G24072; CL</p> <p>Click here for more details.</p>
26		<p>Introduction to robotics by S. K. Saha, 3rd ed., Chennai: McGraw Hill, 2025. xxxi, 576 p. Includes references and index (p. 566-576)</p> <p>ISBN: 9789355326461</p> <p>Subject Terms: Operating systems; Industrial robots; Wheeled mobile robots; Automation and mechatronics; Linear control</p> <p>681.3 SAH-I</p> <p>Barcode: G24075; CL</p> <p>Click here for more details.</p>
27		<p>Piglet's journey by Bipattaran Kanjilal, Pune: Vishwakarma Publications, 2024. 103 p.</p> <p>ISBN: 9789395481984</p> <p>Subject Terms: Home and parents; Struggle; Breakthrough; Non-fiction; High school journey</p> <p>82.312.6 KAN-P</p> <p>Barcode: G24073; CL</p> <p>Click here for more details.</p>



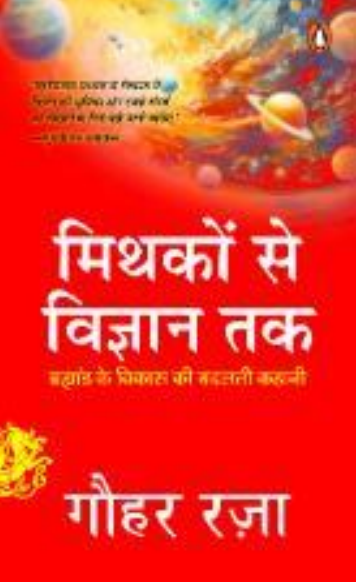
28		<p>Acche ilaj ke 51 nuskhe (अच्छे इलाज के 51 नुस्खे) by Sandeep Kumar and Ajay Kumar Agrawal, Wilmington: Stardom Books, 2023. 560 p.</p> <p>ISBN: 9781957456249</p> <p>Subject Terms: Health awareness; Patients' rights; Telemedicine; Spurious medicine; Balanced diet and nutrition</p>
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29		<p>Anusandhan pravidhiyan (अनुसंधान प्रविधियां) by O. P. Agarwal, New Delhi: Binesh Publications, 2024. vi, 272 p.</p> <p>ISBN: 9788193895191</p> <p>Subject Terms: Research methodology; Experimental research; Observational technique; Research problems; Inductive and deductive reasoning</p>
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30		<p>Breaking the mould (ब्रेकिंग द माउल्ड):Bharat ke aarthik bhavishya ki punah kalpna (भारत के आर्थिक भविष्य की पुनः कल्पना) by Raghuram G. Rajan and Rohit Lamba, Gurugram: Penguin Random house, 2023. xxxi, 288 p.</p> <p>Includes reference (p. 263-288)</p> <p>ISBN: 9780143465584</p> <p>Subject Terms: Country wealth; Indian manufacturing; Trade and services; 21st century governance system; AI and service sector</p>
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32		<p>Collector sahiba (कलेक्टर साहिबा):UPSC wala love (यूपीएससी वाला लव) by Kailash Manju Bishnoi, Bhopal: Manjul Publishing, 2024. 161 p.</p> <p>ISBN: 9789355437099</p> <p>Subject Terms: Women empowerment; UPSC; Short stories; Literature; Motivation</p> <p>H 82-31 BIS-C</p> <p>Barcode: H355; CL</p> <p>Click here for more details.</p>
33		<p>Dalit Brahman (दलित ब्राह्मण) by Sharan Kumar Limbale, New Delhi: Vani Prakashan, 2020. 125 p.</p> <p>ISBN: 9789350724484</p> <p>Subject Terms: Motivational stories; Literature; Short stories; Caste system; Poverty</p> <p>H 82-31 LIM-D</p> <p>Barcode: H367; CL</p> <p>Click here for more details.</p>

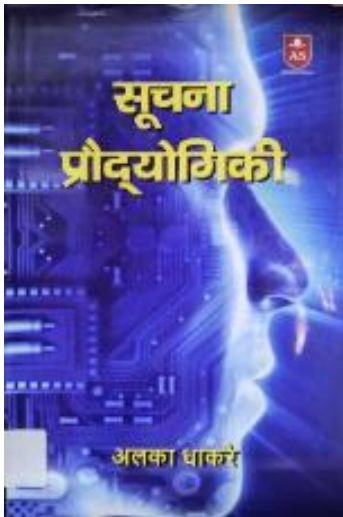
34		<p>Dr. A. P. J. Abdul Kalam ka shiksha darshan (डॉ. एपीजे अब्दुल कलाम का शिक्षा दर्शन) by Virendra Singh Baghel, Delhi: A. S. Book International, 2024. 286 p.</p> <p>ISBN: 9789393141125</p> <p>Subject Terms: Biography; Educational philosophy; Indian culture; National development; President of India</p> <p>H 37.01 BAG-D</p> <p>Barcode: H364; CL</p>
35		<p>Dr. Bhimrao Ambedkar ka naitik darshan (डॉ. भीमराव अम्बेडकर का नैतिक दर्शन) by Suresh Mishra, New Delhi: Nisha Publications, 2024. 120 p.</p> <p>ISBN: 9788195187331</p> <p>Subject Terms: Man and religion; Dalit community; Moral life; Religion and morality; Indian thought</p> <p>H 17.022 MIS-D</p> <p>Barcode: H363; CL</p>
36		<p>Ek nai shuruuat (एक नई शुरुआत):Jeevan ki preernadayak bees sacchi kahaniyan (जीवन की प्रेरणादायक बीस सच्ची कहानियाँ) edited by Sudha Murti, Gurugram: Penguin Random House, 2024. xi, 172 p.</p> <p>ISBN: 9780143460299</p> <p>Subject Terms: Motivation; Short stories; Literature; Daily life problems; Entertainment</p> <p>H 82-32 -EK</p> <p>Barcode: H353; CL</p> <p>Click here for more details.</p>
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39		<p>Har umar mein fit rahain (हर उम्र में फिट रहें):ek practitioner ki salah (एक प्रैक्टिशनर की सलाह) by P. V. Iyer, New Delhi: Bloomsbury, 2022. xxii, 164 p. Includes index (p. 429-450)</p> <p>ISBN: 9789356408753</p> <p>Subject Terms: Health awareness; Physical fitness; Exercise and yoga; Discipline; Healthy lifestyle</p> <p>H 613 IYE-H</p> <p>Barcode: H360; CL</p> <p>Click here for more details.</p>

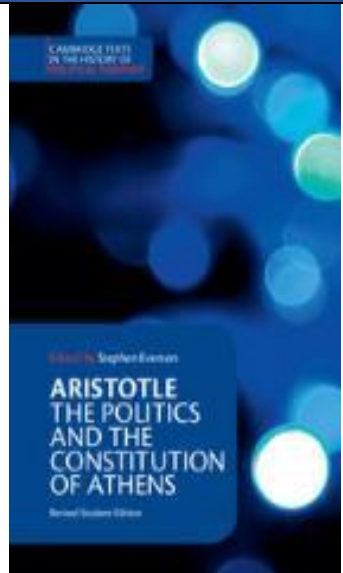
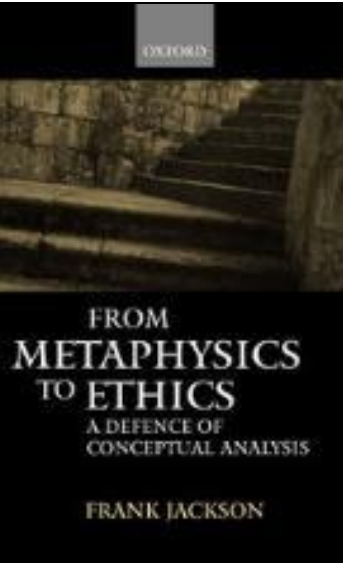
40		<p>Jyotiba Phule (ज्योतिबा फुले):vyaktitva aur vichar (व्यक्तित्व और विचार) by Gangadhar Balkrishna Sardar, New Delhi: Samayik Prakashan, 2023. 256 p. Includes references (p. 255-256)</p> <p>ISBN: 9789393232168</p> <p>Subject Terms: Biography; Social problems; Social reformers; Indian history; Indian social activist</p>
		H 929PHU GAN-J
		Barcode: H347; CL
41		<p>Khud se behtar (खुद से बेहतर):career mein saphalata ke 15 sutra (करियर में सफलता के 15 सूत्र) by Naveen Chaudhary, Delhi: Yuvaan Books, 2024. 207 p.</p> <p>ISBN: 9789348497239</p> <p>Subject Terms: Personality development; Career; Success; Hindi literature; Stories</p>
		H 159.923.2 CHA-K
		Barcode: H351; CL
		Click here for more details.
42		<p>Khushiyon ki pathshala (खुशियों की पाठशाला) by Renu Saini, New Delhi: Samayik Prakashan, 2024. 192 p.</p> <p>ISBN: 9789393232984</p> <p>Subject Terms: Entertainment; Literature; Short stories; Motivational stories; Life skills</p>
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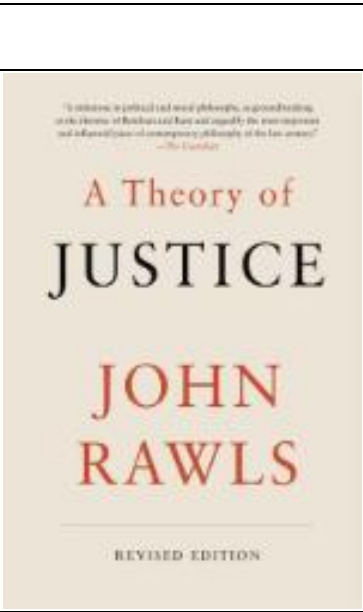
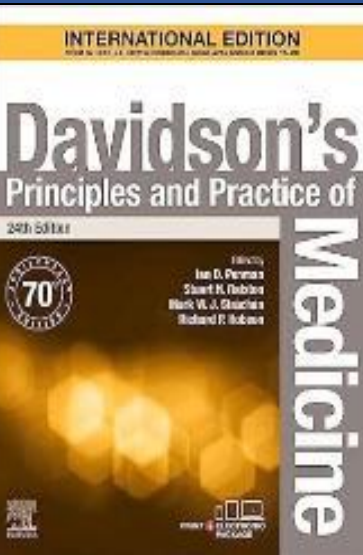
43		<p>Life skills for career (लाईफ़ स्किल्स फॉर करिअर) by Sushil Kumar Pare, Delhi: Yuvaan Books, 2024. 308 p.</p> <p>ISBN: 9788119745029</p> <p>Subject Terms: Personality development; Success; Life skills; Communication; Time management</p> <p>H 159.923.2:005.966 PAR-L</p> <p>Barcode: H352; CL</p> <p>Click here for more details.</p>
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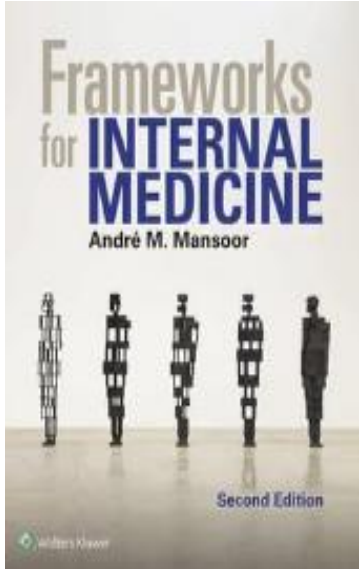
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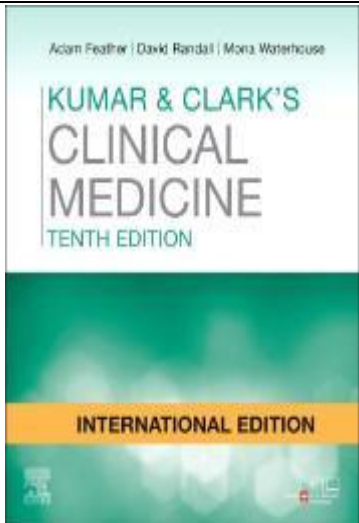
49		Suchna prodhyogiki (सूचना प्रौद्योगिकी) by Alka Dhakre, Delhi: A. S. Book International, 2024. 248 p.
		ISBN: 9789393141187
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Humanities & Social Sciences


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52		<p>Montesquieu:the spirit of the laws translated and edited by Anne M. Cohler, Basia Carolyn Miller and Harold Samuel Stone, Cambridge: Cambridge University Press, 1989. xlvii, 757 p., - Cambridge texts in the history of political thought. Includes bibliography and index (p. 723-757)</p> <p>ISBN: 9780521369749</p> <p>Subject Terms: American constitution; Roman laws; Civil laws; Criminal laws; Sumptuary laws</p> <p>340.123 -MON</p> <p>Barcode: 180611; CL</p> <p>Click here for more details.</p>
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54		<p>Davidson's principles and practice of medicine edited by Ian D. Penman... (et al.), 24th ed., London: Elsevier, 2023. xx, 1357 p. Includes index (p. 1317-1357)</p> <p>ISBN: 9780702083488</p> <p>Subject Terms: Clinical genetics; Infectious disease; Oncology; Neurology; Stroke medicine</p> <p>616 -DAV</p> <p>Barcode: 180629; IITH</p> <p>Click here for more details.</p>
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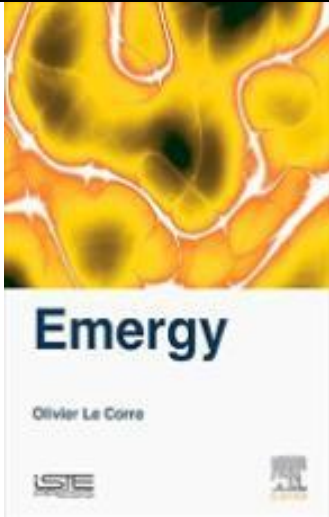
55		<p>Frameworks for internal medicine by Andre M. Mansoor, 2nd ed., Philadelphia: Wolters Kluwer, 2024. xiv, 866 p. Includes index (p. 845-866)</p> <p>ISBN: 9781975193126</p> <p>Subject Terms: Diagnosis-differential; Internal medicine; Medical; Cardiology; Endocrinology</p>
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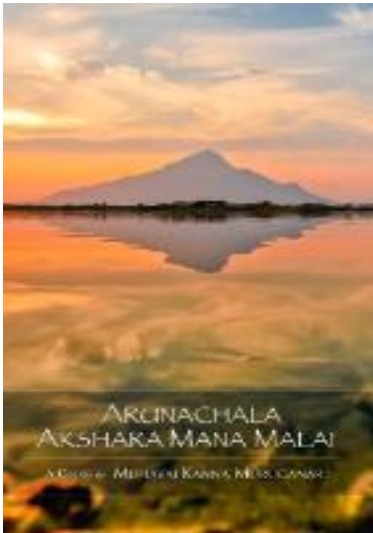

Management Studies

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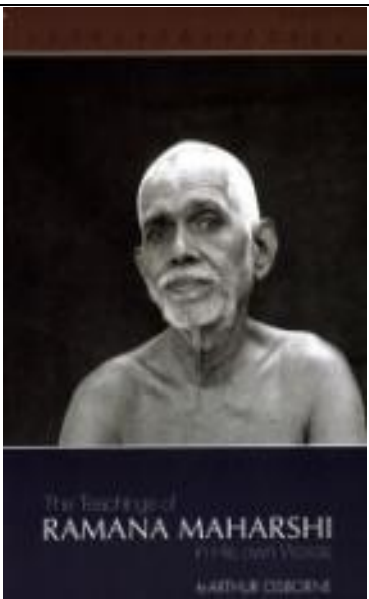

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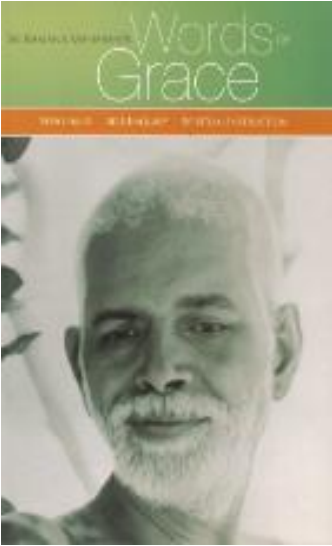
58		<p>Emergy by Olivier Le Corre, London: ISTE Press, 2016. xxiii, 152 p. Includes bibliography and index</p> <p>ISBN: 9781785480973</p> <p>Subject Terms: Force and energy; Wind resources; Emergy and recycling; Environmental economics; Thermodynamics</p>
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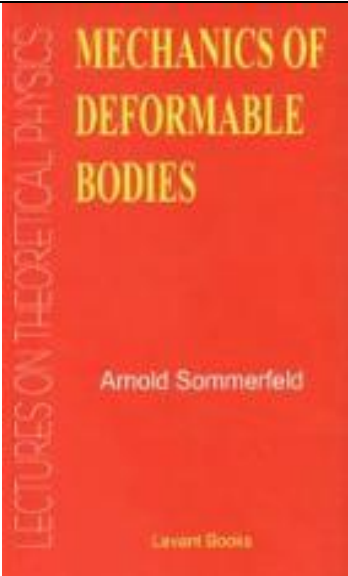
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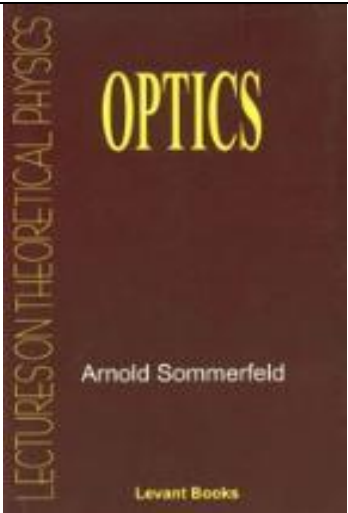
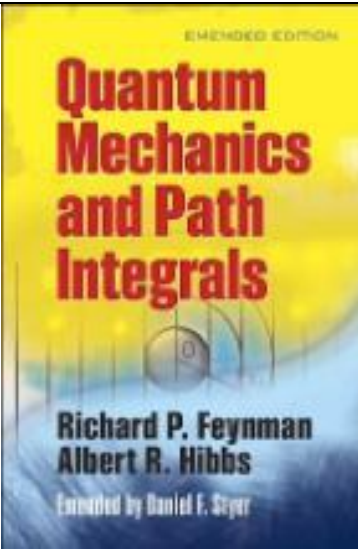

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Physics

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72		<p>Technical textile yarns:industrial and medical applications edited by R. Alagirusamy and A. Das, Cambridge: Woodhead Publishing, 2010. xx, 612p., - Woodhead publishing series in textiles. Includes index (p. 586-612)</p> <p>ISBN: 9781439831540</p> <p>Subject Terms: Fibres textiles; Spinning; Technical and manufacturing industries; Textile fabrics - Testing; Textiles and polymers</p> <p>677.072.4 -TEC</p> <p>Barcode: 180574; CL</p> <p>Click here for more details.</p>
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Researcher	:	Shukla, Manish
Department	:	Department of Civil Engineering, IITD
Year	:	2025
Supervisor	:	Khosa, Rakesh (Prof.) - CE (Guide); Jha, Kumar Neeraj (Prof.) - CE (Guide)
Physical description	:	xxx, 248p.
Subject terms	:	Lagrangian coherent studies; Maritime infrastructure; Sediment dynamics; Seasonal Variability; Tydal influence
Barcode	:	TH8032
Call No.	:	TH 532.5:551.468.1(540.69) SHU-H
Title	:	Resilient cooperative control of multi-agent systems against a class of cyber attacks by Sujeet Kumar
Researcher	:	Sujeet Kumar
Department	:	Department of Electrical Engineering, IITD
Year	:	2025
Supervisor	:	Kar, Indra Narayan (Prof.) - EE (Guide)
Physical description	:	xvii, 141 p.
Subject terms	:	Algebraic graph theory; Competitive interaction; Synchronization; Finite-time stability; Communication topology
Barcode	:	TH8033
Call No.	:	TH 621.3.052.4:004.49 SUJ-R
Title	:	Machine learning and natural language processing for construction materials Mohd Zaki
Researcher	:	Zaki, Mohd
Department	:	Department of Civil Engineering, IITD
Year	:	2025
Supervisor	:	Krishnan, N. M. Anoop (Assoc. Prof.) - CE (Guide); Jayadeva (Prof.) - EE (Guide)
Physical description	:	xix, 204 p.
Subject terms	:	Oxide glass; Cement; Materials database; Materials Discovery; Composition-property relationships
Barcode	:	TH8034
Call No.	:	TH 691:004.85 ZAK-M

Title	:	Wave dispersion characteristics in 1D metamaterial systems by Abhigna Bhatt
Researcher	:	Bhatt, Abhigna
Department	:	Department of Civil Engineering, IITD
Year	:	2025
Supervisor	:	Banerjee, Arnab (Asst. Prof) - CE (Guide)
Physical description	:	xxiv, 190 p.
Subject terms	:	Dispersion; Antiresonance; Couplings; Scattering; Attenuation
Barcode	:	TH8035
Call No.	:	TH 537.876:620 BHA-W

Title	:	Reverse logistics models for electric vehicle batteries by Deepak Gautam
Researcher	:	Gautam, Deepak
Department	:	Department of Mechanical Engineering, IITD
Year	:	2025
Supervisor	:	Bolia, Nomes B. (Prof.) - ME (Guide)
Physical description	:	xviii, 199 p.
Subject terms	:	Circular economy; Environmental sustainability; Sustainable development goals; Resource optimization; Reverse logistics
Barcode	:	TH8036
Call No.	:	TH 629.064.5:621.355 GAU-R

Title	:	Bayesian model updating using complex modal data by Eamon Karim Henikish
Researcher	:	Henikish, Eamon Karim
Department	:	Department of Civil Engineering, IITD
Year	:	2025
Supervisor	:	Bansal, Sahil (Assoc. Prof) - CE (Guide)
Physical description	:	xx, 159 p.
Subject terms	:	Computational issues; Uncertainty quantification; Shear building; Damage detection; Finite element method
Barcode	:	TH8037
Call No.	:	TH 624:519 .226 HEN-B

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Title	:	Examining augmented reality as a product display format in online retailing: a comparative analysis by Pragya Jayaswal
Researcher	:	Jayaswal, Pragya
Department	:	Department of Management Studies, IITD
Year	:	2025
Supervisor	:	Parida, Biswajita (Asst. Prof) - MS (Guide)
Physical description	:	xxv, 444 p.
Subject terms	:	Augmented reality; Bibliometric analysis; Marketing; Psychological ownership; Triangulation
Barcode	:	TH8038
Call No.	:	TH 658.87:004.94 JAY-E
Title	:	Learning to solve combinatorial optimization problems over graphs by Sahil Manchanda
Researcher	:	Manchanda, Sahil
Department	:	Department of Computer Science and Engineering, IITD
Year	:	2025
Supervisor	:	Ranu, Sayan (Assoc. Prof.) - CSE (Guide)
Physical description	:	xvi, 174 p.
Subject terms	:	Neural network; Algorithm; Machine learning; Lifelong learning; Chip design
Barcode	:	TH8039
Call No.	:	TH 004.032.2:519.1 MAN-L
Title	:	Novel spin-orbit torques using selenium-based 2D material and light-element aluminium by Richa Mudgal
Researcher	:	Mudgal, Richa
Department	:	Department of Physics, IITD
Year	:	2025
Supervisor	:	Muduli, Pranaba Kishor (Prof.) - PH (Guide); Das, Samaresh (Prof.) - CARE (Guide)
Physical description	:	xxvi, 128p.
Subject terms	:	Spin orbit; Transition metal; Heavy metal ferromagnet; Polarization; Crystal symmetries
Barcode	:	TH8040
Call No.	:	TH 539.183.4 MUD-N

Title	:	Investigative experimental study of different structural materials under shock wave loading by Khushi Ram
Researcher	:	Khushi Ram
Department	:	Department of Mechanical Engineering, IITD
Year	:	2025
Supervisor	:	Bhatnagar, Naresh (Prof.) - ME (Guide); Mahajan, Puneet (Prof.) - AM (Guide)
Physical description	:	xix, 132 p.
Subject terms	:	Tensile test; Manufacturing; Compressive test; Supersonic wave; Driver gas
Barcode	:	TH8041
Call No.	:	TH 623.454.833 KHU-I

Title	:	Functional characterization of hypoxia associated long non-coding RNAs and anti-cancer drug development for glioblastoma treatment by Garima Yadav
Researcher	:	Yadav, Garima
Department	:	Department of Biochemical Engineering and Biotechnology, IITD
Year	:	2025
Supervisor	:	Kulshreshtha, Ritu (Prof.) - BEB (Guide)
Physical description	:	xvii, 222 p.
Subject terms	:	Glioblastoma; Chemotherapy; Radiotherapy; Immunotherapy; Radiation
Barcode	:	TH8042
Call No.	:	TH 616-006.6:615 YAD-F

Title	:	Framework for virtual reality adoption: study of the tourism industry by Nidhi Yadav
Researcher	:	Yadav, Nidhi
Department	:	Department of Management Studies, IITD
Year	:	2025
Supervisor	:	Chaudhry, Harish (Prof.) - MS (Guide)
Physical description	:	xix, 288 p.
Subject terms	:	Digitisation; Marketing; Technological transformation; Tourism; Hospitality
Barcode	:	TH8043
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Title	:	Eliot, the philosopher-poet: an investigation into homological connections between Eliot's philosophy and eliot's poetry by Mohit Abrol
Researcher	:	Abrol, Mohit
Department	:	Department of Humanities and Social Sciences, IITD
Year	:	2025
Supervisor	:	Dwivedi, Divya (Assoc. Prof.) - HSS (Guide)
Physical description	:	vii, 252 p.
Subject terms	:	Literary theory; Cultural context; Religious imagery; Critical analysis; Modernism and symbolism
Barcode	:	TH8044
Call No.	:	TH 1:82-057 ABR-E

Title	:	Construction and demolition waste management in Indian construction projects by Ravindranadh Chowdary Kamma
Researcher	:	Kamma, Ravindranadh Chowdary
Department	:	Department of Civil Engineering, IITD
Year	:	2025
Supervisor	:	Jha, Neeraj Kumar (Prof.) - CE (Guide)
Physical description	:	xxii, 192 p.
Subject terms	:	Construction waste; Sustainable construction; life cycle assessment; Waste management; Environmental impacts
Barcode	:	TH8045
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Title	:	Upstream process development for production of biotherapeutics using CHO cell culture by Neelesh Gangwar
Researcher	:	Gangwar, Neelesh
Department	:	School of Interdisciplinary Research, IITD
Year	:	2025
Supervisor	:	Rathore, Anurag S. (Prof.) - CHE (Guide); Gomes, James (Prof.) - SBS (Guide)
Physical description	:	xxi, 147 p.
Subject terms	:	Glycosylation; Infrared spectroscopy; Mammalian cells; Media components; Machine learning
Barcode	:	TH8046
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Title	:	Laser-plasma interaction for electromagnetic soliton evolution and its application to particle acceleration by Gaurav Kumar
Researcher	:	Gaurav Kumar
Department	:	Department of Physics, IITD
Year	:	2025
Supervisor	:	Malik, Hitendra K. (Prof.) - PH (Guide)
Physical description	:	xv, 103 p.
Subject terms	:	Harmonic creation; Electron-positron-ion plasma; Electron bunch acceleration; Homogeneous plasma; Inhomogeneous plasma
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Title	:	Performance of coal bottom ash and biomass fly ash in concrete by Arun NR
Researcher	:	NR, Arun
Department	:	Department of Civil Engineering, IITD
Year	:	2025
Supervisor	:	Gupta, Supratic (Asst. Prof.) - CE (Guide)
Physical description	:	xxiii, 133 p.
Subject terms	:	Water permeability; Electron microscope; Lime reactivity; Water-cement ratio; Thermal power
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Title	:	Non-invasive biosensor for non-communicable diseases by Shweta Panwar
Researcher	:	Panwar, Shweta
Department	:	Centre for Biomedical Engineering, IITD
Year	:	2025
Supervisor	:	Jha, Sandeep Kumar (Prof.) - CBME (Guide)
Physical description	:	xxvi, 184 p.
Subject terms	:	3D Printing; Glucose sensor; Fabrication; Tomography; Optical polarimetry
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Title	:	Intelligent approach for fault detection and MPPT control of photovoltaic-based system by Pushpa Kumari
Researcher	:	Pushpa Kumari
Department	:	Department of Electrical Engineering, IITD
Year	:	2025
Supervisor	:	Panigrahi, Bijaya Ketan (Prof.) - EE (Guide)
Physical description	:	xviii, 117 p.
Subject terms	:	Current; Neural network; Voltage; Machine learning; Genetic algorithm
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Title	:	Optical enhancement and ultrafast exciton dynamics in halide double perovskites by Rachna
Researcher	:	Rachna
Department	:	Department of Chemistry, IITD
Year	:	2025
Supervisor	:	Sapra, Sameer (Prof.) - CHY (Guide)
Physical description	:	xxiii, 172 p.
Subject terms	:	Spectroscopy; Microscopy; Photoluminescence; Diffraction; Nanocrystal
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Title	:	Unveiling the micro-level and macro-level implications of competition in the commercial banking sector: empirical insights from the BRICS region by Bhavya Srivastava
Researcher	:	Srivastava, Bhavya
Department	:	Department of Management Studies, IITD
Year	:	2025
Supervisor	:	Singh, Shveta (Prof.) - MS (Guide); Jain, Sonali (Asst. Prof.) - MS (Guide)
Physical description	:	xxix, 453 p.
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Subject terms	:	Integers; Primitive normal pairs; Elliptic curves; Finite fields; Polynomials
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Researcher	:	Vishwakarma, Pragati
Department	:	Kusuma School of Biological Sciences, IITD
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Supervisor	:	Chaudhuri, Tapan K. (Prof.) - SBS (Guide)
Physical description	:	xxi, 156 p.
Subject terms	:	Macromolecular protein; Protein electrophoresis; Dynamic light scattering; Differential scanning calorimetry; Hydrophobic drug
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Title	:	Building energy management with control of HVAC and other flexible loads by Manish Kumar Yadav
Researcher	:	Yadav, Manish Kumar
Department	:	Department of Energy Science and Engineering, IITD
Year	:	2025
Supervisor	:	Verma, Ashu (Prof.) - ESE (Guide); Panigrahi, Bijaya Ketan (Prof.) - EE (Guide)
Physical description	:	xx. 229 p.
Subject terms	:	Smart grids; Light-emitting diodes; Air handling unit; Neuro-fuzzy inference system; Lighting management system
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Title	:	Glacier retreat study and melt modeling in Dudh Kosi river basin using remote sensing and GIS techniques by Fahimah Shad S. V.
Researcher	:	Fahimah Shad S. V.
Department	:	Department of Civil Engineering, IITD
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Supervisor	:	Gosain, A. K. (Prof.) - CE (Guide); Khosa, Rakesh (Prof.) - CE (Guide)
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Title	:	Control of unified power quality conditioner for grid connected and standalone renewable energy interfaced AC system by Sanjenbam Chandrakala Devi
Researcher	:	Devi, Sanjenbam Chandrakala
Department	:	Department of Electrical Engineering, IITD
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Supervisor	:	Singh, Bhim (Prof.) - EE (Guide)
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Subject terms	:	Battery energy; Solar array; MATLAB; Synchronous generator; Insulation variation
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Title	:	Pervaporation for biofuel refining: multicomponent permeation and coupling effects in Acetone-Butanol-Ethanol solutions by Abeer Mushtaq Mutto
Researcher	:	Mutto, Abeer Mushtaq
Department	:	Department of Chemical Engineering, IITD
Year	:	2025
Supervisor	:	Gupta, Sharad Kumar (Prof.) - CHE (Guide); Khanna, Rajesh (Prof.) - CHE (Guide)
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Researcher	:	Veenu Shankar
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Title	:	Inverse stochastic filtering for inverse cognition in counter-adversarial systems by Himali Singh
Researcher	:	Singh, Himali
Department	:	Department of Electrical Engineering, IITD
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Supervisor	:	Chattopadhyay, Arpan (Asst. Prof.) - EE (Guide); Mishra, Kumar Vijay - US DEVCOM ARL, USA (Guide)
Physical description	:	xii, 153 p.
Subject terms	:	Gaussian PF; Inverse particle; Non linear system; Recursive solutions; Demodulation
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Title	:	Developing a social media marketing framework for the B2B industry by Apurva Chamaria
Researcher	:	Chamaria, Apurva
Department	:	Department of Management Studies, IITD
Year	:	2025
Supervisor	:	Chaudhry, Harish (Prof.) - MS (Guide)
Physical description	:	xii, 189 p.
Subject terms	:	Social selling; Sustainable competitiveness; Governance; Businesses; Theme visualization
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Title	:	Antimicrobial efficacy of cold atmospheric pressure plasma jet against clinical bacterial isolates by Sarthak Das
Researcher	:	Das, Sarthak
Department	:	School of Interdisciplinary Research, IITD
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Supervisor	:	Kar, Satyananda (Assoc. Prof.) - ESE (Guide); Mohapatra, Sarita (Prof.) - AIIMS, New Delhi (Guide)
Physical description	:	xxvii, 133 p.
Subject terms	:	Atmospheric pressure; Spectroscopy; Radiofrequency; Transmission electron microscopy; Electrical conductivity
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Title	:	Modelling flows over patterned and lubricant-infused surface textures by Vishal Goyal
Researcher	:	Goyal, Vishal
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Supervisor	:	Datta, Subhra (Assoc. Prof.) - ME (Guide)
Physical description	:	xviii, 273 p.
Subject terms	:	Super hydrophobic surfaces; Lubricant infused surfaces; Electroosmosis flow; Helmholtz-smoluchowski theory; Rectangular wave topography
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Researcher	:	Gupta, Nidhi
Department	:	Department of Materials Science and Engineering, IITD
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Supervisor	:	Saha, Sampa (Assoc. Prof.) - MSE (Guide); Chan, Yang-Hsiang (Prof.) - NYCU, Hsinchu, Taiwan (Guide)
Physical description	:	xxxii, 274 p.
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Title	:	Development of interpolated hybrid RANS-LES solvers for turbulent fluid flows Ashutosh Kumar Jaiswal
Researcher	:	Jaiswal, Ashutosh Kumar
Department	:	Department of Applied Mechanics, IITD
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Supervisor	:	Bhattacharya, Amitabh (Prof.) - AM (Guide); Dewan, Anupam (Prof.) - AM (Guide)
Physical description	:	xxi, 133 p.
Subject terms	:	Law of the wall; Spalart allmaras model; Detached eddy simulations; Turbulent channel flow; Modeled stress depletion
Barcode	:	TH8065
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Title	:	Design and implementation of high power converters for medium voltage induction motor drives by Rohit Kumar
Researcher	:	Rohit Kumar
Department	:	Department of Electrical Engineering, IITD
Year	:	2025
Supervisor	:	Singh, Bhim (Prof.) - EE (Guide)
Physical description	:	xxxix, 497p.
Subject terms	:	Medium voltage induction drive; Multi-pulse converter; Multi winding transformer; Phase conversion; AC-DC converters
Barcode	:	TH8066
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Title	:	Development of novel slotted waveguide antennas for millimeter wave applications by Shilpi Singh
Researcher	:	Singh, Shilpi
Department	:	Centre for Applied Research in Electronics, IITD
Year	:	2025
Supervisor	:	Basu, Ananjan (Prof.) - CARE (Guide)
Physical description	:	xvi, 121 p.
Subject terms	:	Leaky wave antenna; Prototype antenna; Circular polarisation; Satellite communication; Millimetre wave antenna
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Researcher	:	Yadav, Hitesha
Department	:	Department of Management Studies, IITD
Year	:	2025
Supervisor	:	Kar, Arpan Kumar (Prof.) - MS (Guide); Kashiramka, Smita (Prof.) - MS (Guide)
Physical description	:	vii, 176 p.
Subject terms	:	Communication; Stakeholder community; Social media platform; Management theory; Social media during pandemic
Barcode	:	TH8068
Call No.	:	TH 659:316.772 YAD-S
Title	:	Investigation of metal hydride based thermochemical energy storage system for high temperature applications by Sumeet Kumar Dubey
Researcher	:	Dubey, Sumeet Kumar
Department	:	Department of Energy Science and Engineering, IITD
Year	:	2025
Supervisor	:	K. Ravi Kumar (Assoc. Prof) - ESE (Guide)
Physical description	:	xxii, 155 p.
Subject terms	:	Heat transfer techniques; Energy absorption analysis; Latent energy storage; Dual metal hydride reactor; Grid independence test
Barcode	:	TH8069
Call No.	:	TH 620.9:544.338 DUB-I
Title	:	Theoretical and simulation studies on laser interacting with magnetized plasma by Laxman Prasad Goswami
Researcher	:	Goswami, Laxman Prasad
Department	:	Department of Physics, IITD
Year	:	2025
Supervisor	:	Das, Amita (Prof.) - PH (Guide)
Physical description	:	xiii, 146 p.
Subject terms	:	Electromagnetic wave; Diamagnetic effect; Ponderomotive pressure; Combined 2D effect; Particle dynamics
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Title	:	MTPA and MTPV control optimization schemes for double-inverter fed wound rotor induction motor drive by Cheshta Jain
Researcher	:	Jain, Cheshta
Department	:	Department of Electrical Engineering, IITD
Year	:	2025
Supervisor	:	Jain, Amit Kumar (Prof.) - EE (Guide)
Physical description	:	xxvi, 149 p.
Subject terms	:	Open loop control; Flux weakening region; AgFOC scheme; Voltage controllers; Dual direct current control
Barcode	:	TH8071
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Title	:	Exploring pricing strategies using regime switching stochastic models and machine learning techniques for insurance contracts by Mohammad Sarfraz
Researcher	:	Sarfraz, Mohammad
Department	:	Department of Mathematics, IITD
Year	:	2025
Supervisor	:	Dharmaraja, S. (Prof.)- MA (Guide)
Physical description	:	xxii, 163 p.
Subject terms	:	Lifetime income protection; Switching heston model; Identifying market regimes; MRS model; Risks in life insurance
Barcode	:	TH8072
Call No.	:	TH 519.21:004.85 SAR-E
Title	:	Development of liquid crystal based devices for optical and solar energy harvesting applications by Vaibhav Sharma
Researcher	:	Sharma, Vaibhav
Department	:	Department of Physics, IITD
Year	:	2025
Supervisor	:	Sinha, Alok (Prof.) - PH (Guide)
Physical description	:	xxii, 174 p.
Subject terms	:	Classification of liquid crystals; Freedericksz transition; LSC fabrication; Dual mode polarization; Solar energy harvesting
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Title	:	Synthesis of carbon by co-pyrolysis of end-of-life tyres and jackfruit peels and its application in wastewater treatment by Devika Venu
Researcher	:	Venu, Devika
Department	:	Department of Civil Engineering, IITD
Year	:	2025
Supervisor	:	Alappat, Babu J. (Prof.) - CE (Guide)
Physical description	:	xxiii, 310 p.
Subject terms	:	Activated carbon; Iron and zinc in catalyst; Economic analysis; Kinetic study; Adsorption isotherm
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Title	:	Visible light mediated multicomponent reactions and C-H functionalization by substrate photoactivation in neutral, acidic and basic conditions by Vikas
Researcher	:	Vikas
Department	:	Department of Chemistry, IITD
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Supervisor	:	Jain, Nidhi (Prof.) - CHY (Guide)
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Subject terms	:	Photochemical processes; Energy transfer; Carbonyls; Diazo compounds; Direct light absorbance
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Title	:	Studies on the development of biocompatible and infection resistant polypropylene hernia mesh by Vipula Sethi
Researcher	:	Sethi, Vipula
Department	:	Department of Textile and Fiber Engineering, IITD
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Supervisor	:	Mukhopadhyay, Samrat (Prof.) - TFE (Guide); Gupta, Bhuvanesh (Prof.) - TFE (Guide); Gupta, Amlan (Prof.) - JPMSS Hospital, Patna (Guide)
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Researcher	:	Sharma, Vikas
Department	:	Department of Civil Engineering, IITD
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Researcher	:	Aiswarya T. T.
Department	:	Department of Materials Science and Engineering, IITD
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