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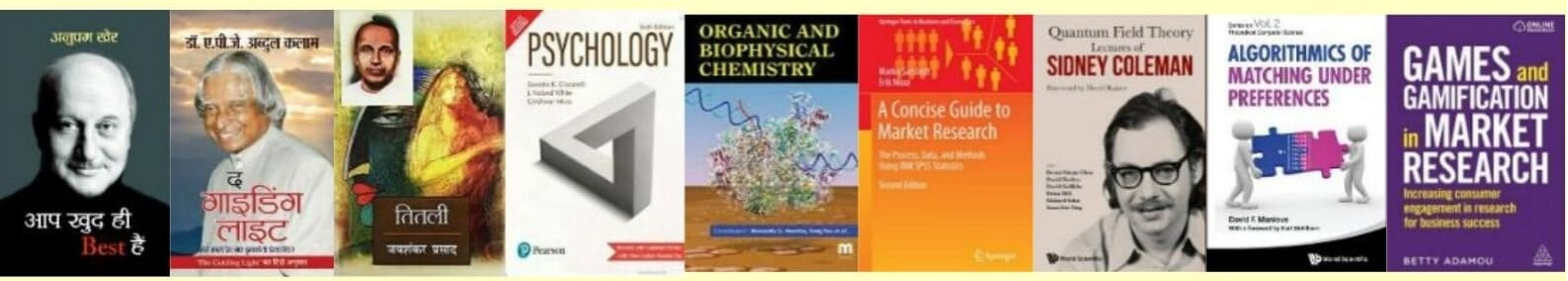
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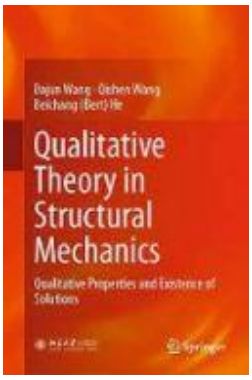
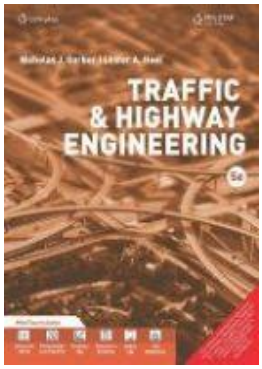
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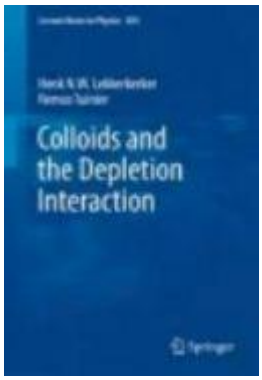
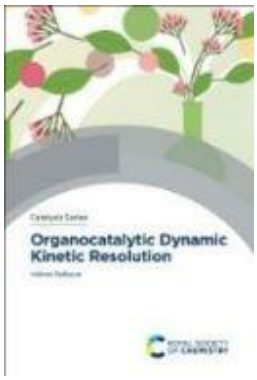
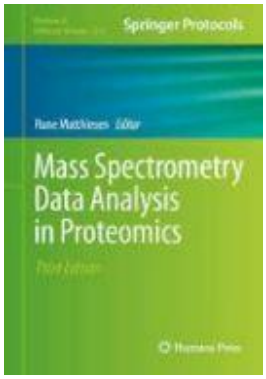
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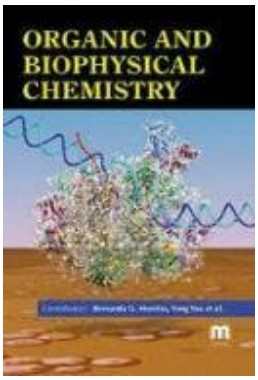
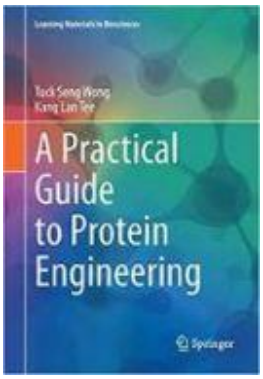
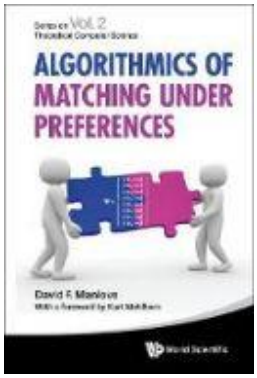
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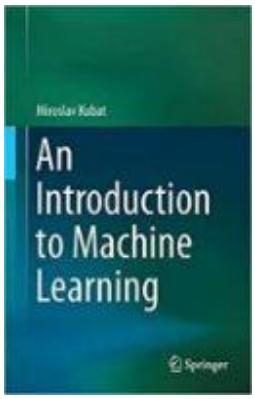
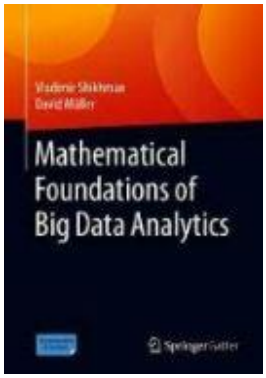
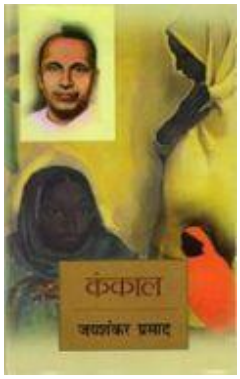
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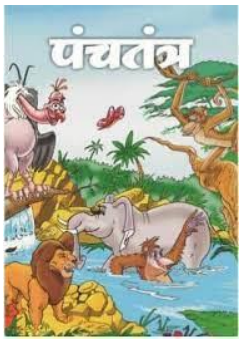
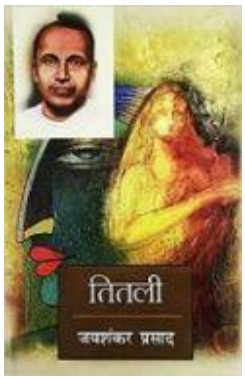
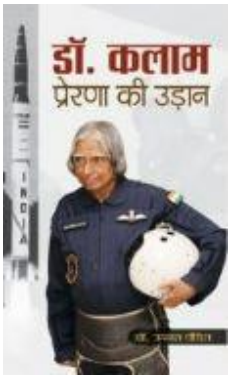
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S.NO.	APPLIED MECHANICS	
1		Qualitative theory in structural mechanics: qualitative properties and existence of solutions by Dajun Wang , Qishen Wang and Beichang (Bert) He, Singapore: Springer, 2019. x, 395p. Includes index (p. 391-395) ISBN: 9789811313752 Subject Terms: Assembly structures, Displacement mode shape, Beams, Repetitive structures, Oscillatory matrices, Structural theories
		624.01/.07 WAN-Q
		177972; CL
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S.NO.	CENTRAL LIBRARY*	
1		Traffic and highway engineering by Nicholas J. Garber and Lester A. Hoel, 5th ed.,Delhi: Cengage, 2015. xx, 1271p. Includes index (1243-1271) ISBN: 9788131529430 Subject Terms: Transportation, Traffic engineering , Highway safety, Traffic planning, Highway surveys, Pavement management, Materials and pavements, Highway design
		625.7 GAR-T
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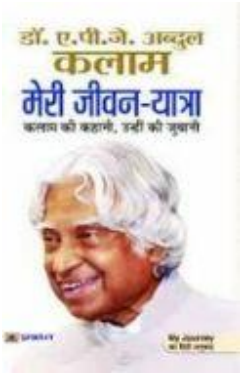
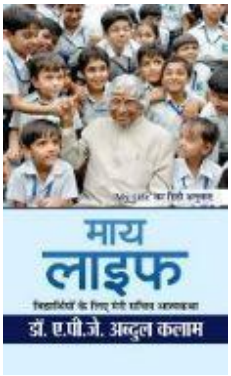
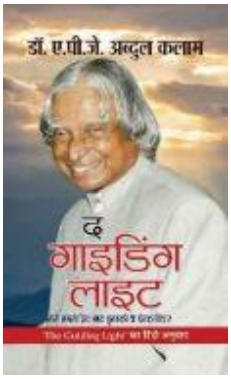
S.NO.	BIOCHEMICAL ENGINEERING AND BIOTECHNOLOGY	
1		Colloid and depletion interaction by Henk N.W. Lekkerkerker and Remco Tuinier, Dordrecht: Springer, 2011. xiv, 233p., - Lecture notes in physics. Includes index (p. 231-233) ISBN: 9789400712225 Subject Terms: Colloidal suspensions, Demixing phenomenon, Osmotic pressure gradient, Unbalanced forces, Phase transitions 544.7 LEK-C 177984; CL Click for more details
S.NO.	CHEMISTRY	
1		Organocatalytic dynamic kinetic resolution by Helene Pellissier, London: Royal Society of Chemistry, 2022. xi, 157 p., - Catalysis series. Includes bibliography and index (p.155-157) ISBN: 9781839165658 Subject Terms: Organic compounds – Synthesis, Resolution – Chemistry, Phosphoric acid catalysts, Domino reactions, Physical organic - Periodicals 544.45/.47 PEL-O 177973; CL Click for more details
2		Mass spectrometry data analysis in proteomics edited by Rune Matthiesen, 3rd ed.,New York: Humana Press, 2020. x, 445p., - Methods in molecular biology. Includes index (p.437-445) ISBN: 9781493997466 Subject Terms: Clinical proteomics, Proteogenomics, Protein-based targets, Spectra processing, Isotopic distribution 543.51:577.112 -MAS 177988; CL Click for more details

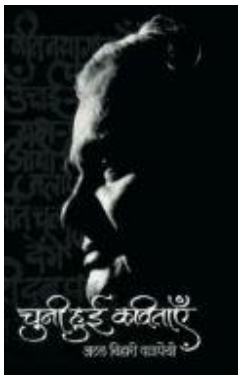
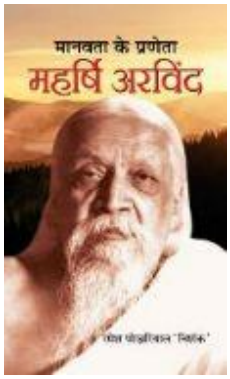
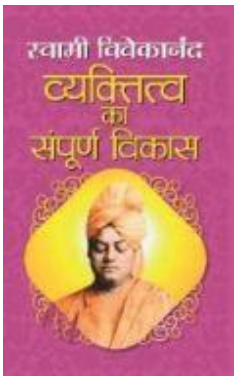
3		Organic and biophysical chemistry contributed by Bernardo G. Moreira... et al., New York: Magnum Publishing, 2016. xix, 238 p. Includes index (p. 237-238) ISBN: 9781682501467 Subject Terms: Organic chemicals, Biochemical, Dopamine molecules, Nucleotide polymerization, Biomolecular
		547:577.3 -ORG
		177989; CL
		Click for more details
4		Practical guide to protein engineering by Tuck Seng, Wong and Kang Lan Tee, Cham: Springer, 2020. xv, 202 p., - Learning materials in biosciences. ISBN: 9783030568979 Subject Terms: Biochemical engineering, Protein variant analysis, DNA sequence analysis, Gene cloning, High throughputs screening, Gene mutagenesis
		577.112 WON-P
		177990; CL
		Click for more details
S.NO.	**COMPUTER SCIENCE AND ENGINEERING**	
1		Algorithmics of matching under preferences by Manlove F. David, Singapore: World Scientific Publishing, 2013. xxxi, 491p., - Series on theoretical computer science. Includes bibliography and index (p.417-491) ISBN: 9789814425247 Subject Terms: Stable matching problem, Pareto optical matching, Stable roommates problem, House allocation problem, Hospitals/residents problem
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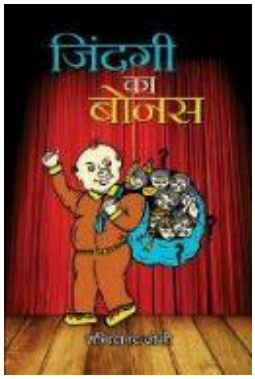
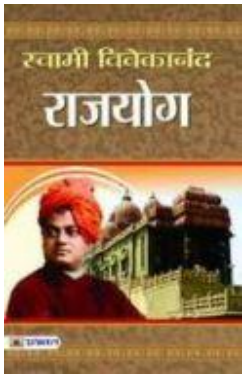
2		Introduction to machine learning by Miroslav Kubat, 3rd ed., Cham: Springer, 2021. xviii, 458 p. Includes bibliography and index (p.451-458) ISBN: 9783030819347 Subject Terms: Bayesian classifier, Computational learning theory, Decision trees, Markov models, Genetic algorithm
		681.3 KUB-I
		177985; CL
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3		Mathematical foundations of big data analytics by Vladimir Shikhman and David Muller, Berlin: Springer, 2021. xi, 273 p. Includes bibliography and index (p. 265-273) ISBN: 9783662625200 Subject Terms: Decision trees, Clustering Linear regression, Neural networks, Recommendation systems, Sparse recovery
		681.3:519.2/.6 SHI-M
		177986; CL
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S.NO.	**HINDI COLLECTION**	
1		Kankal (कंकाल) by Jaisankar Prasad, New Delhi: Pustak Pratishthan, 2016. 200 p. ISBN: 9789382981084 Subject Terms: Hindi Literature – Novel, Society – India, Social worker, Widows, Hindi Literature - Fiction
		H 821.214.21-31 PRA-K
		H157; CL
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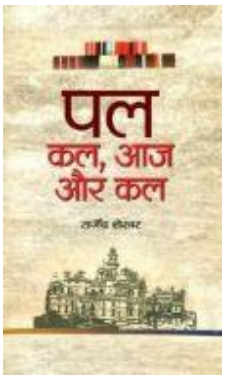
2		Panchtantra : bolti shikshaprad Kahaniyan (पंचतंत्र : बोलती शिक्षा प्रद कहानियां) by Acharya Vishnu Sharma; adaptation by Parmanand Prabhakar, Delhi: Shubhada Prakashan, 2022. 157 p. ISBN: 8188459097 Subject Terms: Hindi Literature - short stories, Hindi Literature – fiction, Hindi - folktales and fables, Mitra bhed, Moral stories H 821.214.21-32 SHA-P H158; CL
3		Titli (तितली) by Jayshanker Prasad, New Delhi: Pustak pratishthan, 2021. 206p. ISBN: 9.7893829811e+12 Subject Terms: Hindi Literature – Novel, Hindi fiction, Human values, Human Vs society, Struggles - rural life, Agrarian society H 821.214.21-31 PRA -T H159; CL **Click for more details**
4		Dr. Kalam : prerna ki udaan (डॉ. कलाम : प्रेरणा की उड़ान) by Unnat Pandit, New Delhi: Prabhat prakashan, 2022. 104 p. ISBN: 9789351869580 Subject Terms: Hindi Literature - Semi bipgraphy, Semi biography - A P J Abdul Kalam, Early Life – Kalam, Education – Kalam, Missile man H 821.214.21-312.6 PAN-D H160; CL **Click for more details**

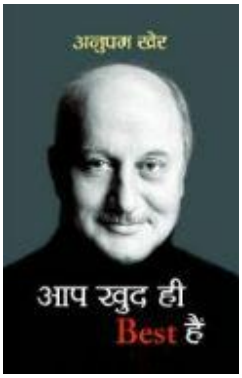
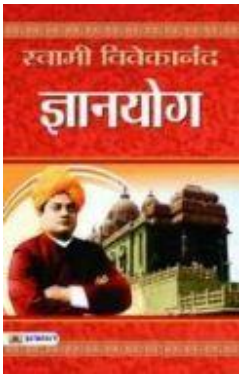
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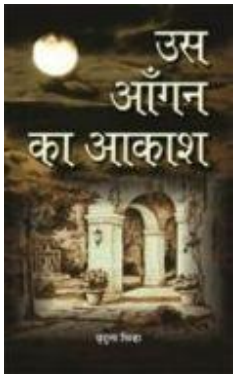
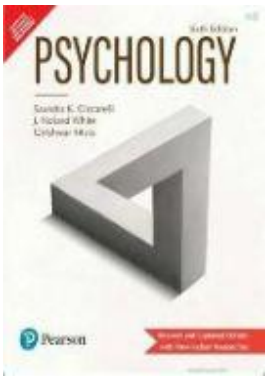
5		Meri jeevan yatra : kalam ki kahani, unhi ki jubaani (मेरी जीवन यात्रा : कलाम की कहानी, उन्ही की जुबानी) by A. P. J. Abdul Kalam, New Delhi: Prabhat prakashan, 2021. 191 p. ISBN: 9789350487969 Subject Terms: Hindi Literature - Semi biography, Semi biography - A P J Abdul Kalam, Short life moments, Personal experiences, President - India
		H 821.214.21-312.6 KAL-M
		H161; CL
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6		My life : Vidyarthiyon ke liye meri sachitra atmakatha (माय लाइफ : विद्यार्थियों के लिए मेरी सचित्र आत्मकथा) by A. P. J. Abdul Kalam, New Delhi: Prabhat prakashan, 2022. 104p. ISBN: 9789390366491 Subject Terms: Hindi Literature - Biography, Biography - A PJ Abdul Kalam, 11th President – India, ISRO scientist, Missile - Architecture
		H 821.214.21-94 KAL-M
		H162; CL
		Click for more details
7		Guiding light (गाइडिंग लाइट) by A.P.J. Abdul Kalam, New Delhi: Prabhat prakashan, 2021. 183p. ISBN: 9789390366385 Subject Terms: Hindi Literature – motivational, Astha, Dharna Shraddhaanjali , Collection of thoughts
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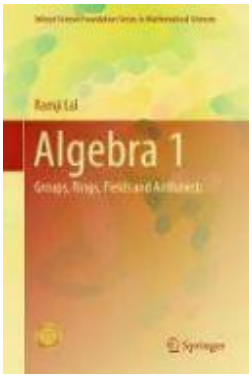
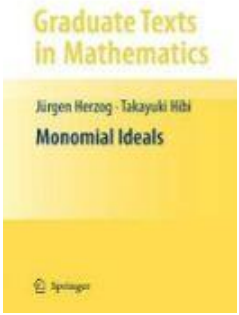
8		Chuni hui kavitayen (चुनी हुई कविताएँ) by Atal Bihari Vajpayee, New Delhi: Prabhat prakashan, 2021. 124p. ISBN: 9789351864318 Subject Terms: Poetry - Hindi Literature, Literature, Poem – Pehchaan, Poem – Shamayachna, Poem - Antardwand H 821.214.21-1 VAJ-C H164; CL **Click for more details**
9		Manavata ke praneta :Maharshi Arvind (मानवता के प्रणेता : महर्षि अरविन्द) by Ramesh Pokhriyal, New Delhi: Prabhat prakashan, 2021. 206 p. ISBN: 9789390366644 Subject Terms: Hindi Literature – Biography, Sri Arvind - political life, Freedom fighter, Philosopher, Spiritual ascent H 929ARV POK-M H165; CL **Click for more details**
10		Vyaktitva ka sampoorna vikas (व्यक्तित्व का संपूर्ण विकास) by Swami Vivekananda, New Delhi: Prabhat prakashan, 2023. 174p. ISBN: 9789390378890 Subject Terms: Hindi Literature - Non Fiction, Genre - Motivational ,Genre – Spiritual, Genre - Philosophical, Genre - Religion H 821.214.21-96 VIV-V H166; CL **Click for more details**

11		Zindagi ka bonus (ज़िन्दगी का बोनस) by Sachchidanand Joshi, Delhi: Pratibha pratishthan, 2021. 136p. ISBN: 9789387980808 Subject Terms: Hindi Literature – Parody, Hindi Literature – Humour, Dakshina, Iftar, Jago utho insaan
		H 821.214.21-7 JOS-Z
		H167; CL
		Click for more details
12		Rajyog (राजयोग) by Swami Vivekananda, New Delhi: Vidya vikas academy, 2015. 199p. ISBN: 9789384343040 Subject Terms: Hindi Literature – Philosophy, Dhyana aur samadhi, Spirituality, Samadhipad, Pratyahara aur dharna
		H 233-852.5YOG VIV-R
		H168; CL
		Click for more details
13		Sunita Williams (सुनीता विल्लियम्स) by Kali Shankar and Rakesh Shukla, Delhi: Pratibha pratishthan, 2022. 205p. ISBN: 9789383111978 Subject Terms: Hindi – Biography, Biography - Sunita Williams, American astronaut, NASA astronaut, Space expedition - Sunita Williams
		H 929WIL SHA-S
		H169; CL
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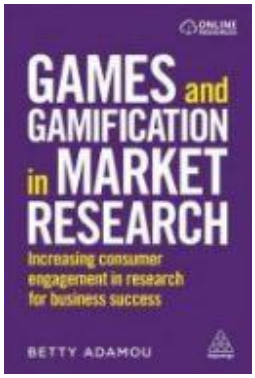
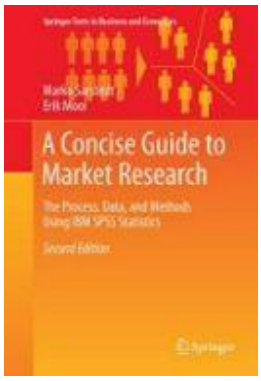
14		Udte chalo, udte chalo (उड़ते चलो, उड़ते चलो) by Ramvriksha Benipuri, New Delhi: Prabhat prakashan, 2017. 176p. ISBN: 9789352663934 Subject Terms: Hindi Literature - Descriptions of travel, Kranti aur kala, Phulwadi, Gulab ki duniya, Florence se Rome
		H 821.214.21-992 BEN-U
		H170; CL
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15		Ahankar ko karen bye-bye (अहंकार को करें बाई -बाई) by Rajesh Aggrawal, Delhi: Satsahitya prakashan, 2020. 142p. ISBN: 9788177214246 Subject Terms: Hindi - Non fiction, Egoism, Positive lifestyle, Ego – disadvantage, Patience
		H 159.923.2 AGG-A
		H171; CL
		Click for more details
16		Pal kal, aaj aur kal (पल कल, आज और कल) by Rajendra Shekhar, New Delhi: Prabhat prakashan, 2017. 255p. ISBN: 9789386300195 Subject Terms: Hindi Literature – autobiography, Autobiographical style, Life story - Rajendra Shekhar, St. Stephen college, Reminiscence
		H 821.214.21-94 SHE-P
		H172; CL
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17		Startup सक्सेस स्टोरीज by Neeti Jain and Gagan Jain, New Delhi: Vidya vihar, 2020. 319p. ISBN: 9789389471052 Subject Terms: Hindi Literature – Entrepreneurs, Paytm - Success story, Redbus - Success story, The loot - Success story, Yo!China - Success story
		H 658.1 JAI-S
		H173; CL
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18		Aap khud hi best hain (आप खुद ही बेस्ट हैं) by Anupam Kher, New Delhi: Prabhat prakashan, 2020. 223p. ISBN: 9789350482315 Subject Terms: Hindi Literature - Self help, Anger management, Unsatisfaction, Thought management, Comparison
		H 159.9 KHE-A
		H174; CL
		Click for more details
19		Gyanyog (ज्ञानयोग) by Swami Vivekananda, New Delhi: Vidya vikas academy, 2022. 232p. ISBN: 9789384343057 Subject Terms: Hindi Literature – Philosophy, Yogasutra, Patanjali, Sadhanpad, Vibhutipad, Pratyahara
		H 233-852.5YOG VIV-G
		H175; CL
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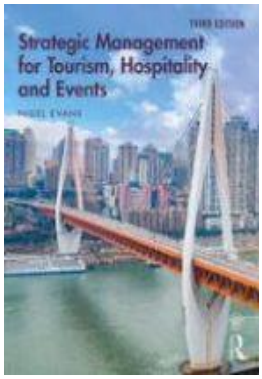
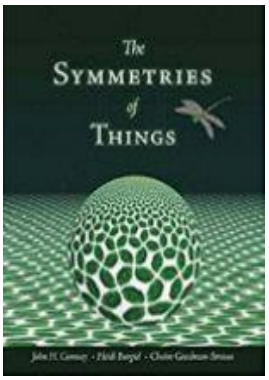
20		Kargil girl (कारगिल गर्ल) by Gunjan Saxena and Kiran Nirvana, New Delhi: Prabhat prakashan, 2021. 246p. ISBN: 9789390923441 Subject Terms: Autobiography - Gunjan Saxena, Operation safed sagar, Kargil war, Female fighter pilot, Woman pilot - Indian Air Force
		H 929SAX SAX-K
		H176; CL
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21		Us aangan ka akash (उस आंगन का आकाश) by Mridula Sinha, New Delhi: Pratibha pratishthan, 2013. 168 p. ISBN: 9789383111367 Subject Terms: Hindi literature - short stories, Folk culture – India, Indian culture, Old traditions, Human Life
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		H177; CL
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1		Psychology by Saundra K. Ciccarelli, J. Noland White and Girishwar Misra, 6th ed., Noida: Pearson Education, 2022. v. p. Includes bibliography and index (p.R-1 - SI-11) ISBN: 9789356060760 Subject Terms: Consciousness, Memory, Cognition, Learning, Psychological therapies
		159.9 CIC-P
		177987; CL
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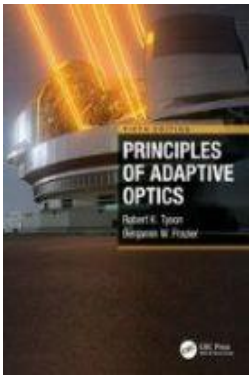
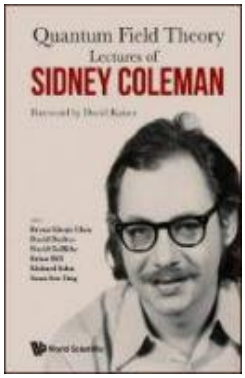
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1		Algebra 1 groups, rings, fields and arithmetic by Ramji Lal, Singapore: Springer, 2017. xvii, 433p., - Infosys science foundation series in mathematical sciences. Includes index (p.429-433) ISBN: 9789811350887 Subject Terms: Group theory, Number system, Rings and fields, Permutation groups, Structure theory of groups
		512 LAL-A
		177981-177982; CL; MA
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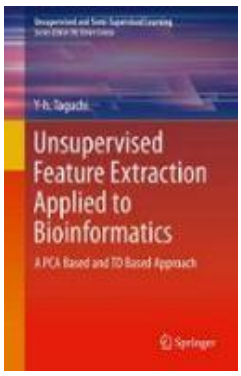
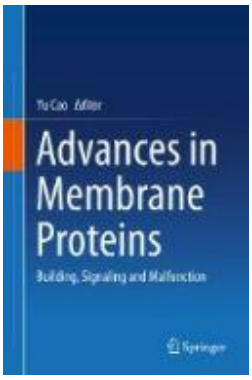
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		575.112:681.3 TAG-U
		177978; CL
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Supervisor	:Santapuri, Sushma (Assoc. Prof.) - AM
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Supervisor	:Elangovan, Ravikrishnan (Prof.) - BEB
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Subject terms	:Fluorescence, Microscopy, Filter cubes and detectors, Scattering imaging systems, I-scope, Nanoparticle characterization system ,Dynamic light scattering
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Title	**:Development of liquid biopsy methods for lung cancer detection by Shefali Singh**
Researcher	:Singh, Shefali
Department	:Department of Biochemical Engineering and Biotechnology, IITD
Year	:2023
Supervisor	:Elangovan, Ravikrishnan (Assoc. Prof.) - BEB
Physical description	:xix, 210 p.
Subject terms	:RNA analysis, ELISA cfDNA extraction and analysis, Exosome co-capture assay, Lung cancer epidemiology
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Title	**:Mathematical modeling of the modified trickling filter by Deepak Sharma**
Researcher	:Sharma, Deepak
Department	:Department of Biomechanical Engineering and Biotechnology, IITD
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Supervisor	:Sreekrishnan,T.R. (Prof.) - BEB, Ahammad, Shaikh Ziauddin (Assoc. Prof.) - BEB
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Subject terms	:Polyurethane sponge, Microbial processes, Biofilm models, Completely mixed biofilm reactor, Biofilm reactor, Raschig rings
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Researcher	:Tripathi, Komal
Department	:Department of Chemical Engineering, IITD
Year	:2023
Supervisor	:Pant, Kamal K. (Prof.) - CHE, Upadhyayula, Sreedevi (Prof.) - CHE
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Subject terms	:Thermodynamics, Reaction mechanism pathways, Kinetic of methanol synthesis, Rector systems, Gas phase technologies, Structure and crystalline properties
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Title	**:Development of novel nanostructures amd nanocomposites for melamine detection by Mohit Tiwari**
Researcher	:Tiwari, Mohit
Department	:Department of Chemical Engineering, IITD
Year	:2023
Supervisor	:Pattanayek, Sudip K. (Prof.) - CHE
Physical description	:xix, 162 p.
Subject terms	:Milk adulteration, Optical sensors, Colorimetric sensor, Raman Scattering Chemiluminescence sensor, Quartz crystal microbalance
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Title	**:Hydrodynamics of three phase radial flow reactor experiments and reactor model for hydroprocessing by Prashant Udaysinh Parihar**
Researcher	:Parihar, Prashant Udaysinh
Department	:Department of Chemical Engineering, IITD
Year	:2023
Supervisor	:Buwa, Vivek V. (Prof.) - CHE, Voolapalli, Ravi Kumar (Chief GM) - BPCL,CRDC, Greater Noida
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Subject terms	:Investigation of gas liquid flow, Pressure drop hysteresis, Dynamic liquid hold up Reactor model for TBR, Mass balance for gas phase, Variation of gas temperature
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Title	**:Functional activity of uranyl (UO2 2+) ion in response to biologically relevant heteroatomic organic donor substrates by Preeti Mishra**
Researcher	:Mishra, Preeti
Department	:Department of chemistry, IITD
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Supervisor	:Singh, Jai Deo (Prof.) - CHY
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Subject terms	:Uranyl ion – Environment, Complexation reactions uranyl ion, Photolytic manner, Nuclear technology, Crystal X-ray diffraction
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Researcher	:Fatima, Syeda Warisul
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Year	:2023
Supervisor	:Khare, S. K. (Prof.) - CHY
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Researcher	:Khokhar, Vaishali
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Supervisor	:Pandey, Siddharth (Prof.) - CHY
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Department	:Department of Chemistry, IITD
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Supervisor	:Deep, Shashank (Prof.) - CHY
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Researcher	:Ganorkar, Kavita P.
Department	:Department of Civil Engineering
Year	:2023
Supervisor	:Chakraborty, Tanusree (Prof.) - CE, Goel, Manmohan Dass (Assoc. Prof.) - VNIT, Nagpur
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Researcher	:Mandhaniya, Pranjal
Department	:Department of Civil Engineering, IITD
Year	:2023
Supervisor	:Shahu, J.T. (Prof.) - CE, Chandra, Sarvesh (Prof.) - CE
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Subject terms	:High speed rail transportation, Field observations, Dispersion spectrum analysis, Moving load analysis, Elastoplastic substructure ,Track modulus
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Department	:Department of Civil Engineering, IITD
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Supervisor	:Krishnan N.M. Anoop (Prof.) - CE
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Researcher	:Singh, Himanshu Pratap
Department	:Department of Civil Engineering, IITD
Year	:2023
Supervisor	:Kaushal, Deo Raj (Prof.) - CE
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Subject terms	:Slurry pipeline, Slurry transportation systems, Particle size distribution Specific gravity of solids, Rheological analysis
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Researcher	:Tripathi, Moulshree
Department	:Department of Civil Engineering, IITD
Year	:2023
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Department	:Department of Civil Engineering, IITD
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Title	**:OTFS based orthogonal multiple access in high delay and doppler wireless channels by Venkatesh Khammammetti**
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Department	:Department of Electrical Engineering, IITD
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Supervisor	:Mohammed, Saif Khan (Prof.) - EE
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Title	**:Exploring computing applications with non-volatile memory by Sandeep Kaur Kingra**
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Supervisor	:Suri, Manan (Assoc. Prof.) - EE
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Title	**:Studies on graphitic carbon nitride nanostructures for photovoltaic applications by Saurabh Pareek**
Researcher	:Pareek, Saurabh
Department	:Department of Energy Science and Engineering, IITD
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Supervisor	:Karak, Supravat (Assoc. Prof.) - ESE
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Title	**:Performance analysis of uneven span greenhouse integrated semitransparent photovoltaic thermal (GiSPVT) system by Sugandha Singh**
Researcher	:Singh, Sugandha
Department	:Department of Energy Science and Technology, IITD
Year	:2023
Supervisor	:Tiwari, G.N. (Prof.) - BERS, Ghaziabad, Bhatti, T. S. (Prof.) - CES
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Subject terms	:Solar cell, Photovoltaic module, Heat transfer, Thermal energy analysis Electrical energy analysis
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Researcher	:Yadav, Nikhil
Department	:Department of Humanities and Social Sciences, IITD
Year	:2023
Supervisor	:Sawhney, Simona (Assoc. Prof.) - HSS, Wakankar, Milind (Assoc. Prof.) - HSS
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Subject terms	:Narrative tendencies, Repression, Narrative analysis, Contemporary Novelists, Literature study, Historical memory
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Title	**:Honorificity agreement in Maithili - a meso-level comparison with Magahi and Bangla by Preeti Kumari**
Researcher	:Preeti Kumari
Department	:Department of Humanities and Social Sciences, IITD
Year	:2023
Supervisor	:Chanda, Pritha (Prof.) - HSS
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Subject terms	:Social media marketing, Social media Influencers, Bibliometric analysis, Digital consumer behaviour, Data analysis and interpretation, Digital marketers
Barcode	:TH7125
Call No.	:TH 658.8:681.3 TAN-R
Title	**:Select studies on the impact of social media on customer satisfaction and firm performance by Prashant Kumar**
Researcher	:Prashant Kumar
Department	:Department of Management studies, IITD
Year	:2023
Supervisor	:Kar, Arpan Kumar (Prof.) - MS, Mithas, Sunil (Prof.) - University of South Florida, USA
Physical description	:xxi, 187 p.
Subject terms	:Consumer marketplace, Businesses heavily, Businesses and customers interact, Management respones, Customer satisfaction
Barcode	:TH7134
Call No.	:TH 658.8:005.52 PRA-S
Title	**:Essays on Finance and Productivity by Pankaj Singh Rawat**
Researcher	:Rawat, Pankaj Singh
Department	:Department of Management Studies, IITD
Year	:2023
Supervisor	:Sharma, Seema (Prof.) - MS
Physical description	:xxi, 129 p.
Subject terms	:Financial development, Productivity growth, Indian manufacturing sector, Technical efficiency, Productivity analysis
Barcode	:TH7136
Call No.	:TH 336:338.312 RAW-E

Title	**:Some aspects of the elastic anisotropy of solids Shrikanth S.**
Researcher	:S. Shrikanth
Department	:Department of Materials Science and Engineering, IITD
Year	:2023
Supervisor	:Prasad, Rajesh (Prof.) - MSE, Neelakantan, Suresh (Assoc. Prof.) - MSE
Physical description	:xxvii, 288 p.
Subject terms	:Elasticity tensor, Biaxial modulus, Shear modulus, Anisotropy parameter Fiber textured thin films, Triclinic crystals
Barcode	:TH7159
Call No.	:TH 539.22:539.3 SHR-S
Title	**:Random sampling in reproducing kernel subspaces by Dhiraj Patel**
Researcher	:Patel, Dhiraj
Department	:Department of Mathematics, IITD
Year	:2023
Supervisor	:Sivananthan, Sampath (Assoc. Prof.) - MA
Physical description	:xviii, 119 p.
Subject terms	:Orlicz Space, Relevant sampling in RKBS, Spherical random sampling, Reconstruction scheme, Sampling discretization
Barcode	:TH7119
Call No.	:TH 519.243 PAT-R
Title	**:Pseudo-differential and localization operators on groups by Santosh Kumar Nayak**
Researcher	:Nayak, Santosh Kumar
Department	:Department of Mathematics, IITD
Year	:2023
Supervisor	:Dasgupta, Aparajita (Asst. Prof.) - MA
Physical description	:xii, 134 p.
Subject terms	:Poincare group ,Similitude group, Affine group, Harmonic analysis ,Square-integrability, Paracommutators
Barcode	:TH7157
Call No.	:TH 512.54 NAY-P

Title	**:Tribological investigation with textured piston rings to improve the performance of IC engine lubricated with fresh and silicate complexes nano-material blended oils by Ashok Atulker**
Researcher	:Atulker, Ashok
Department	:Department of Mechanical Engineering, IITD
Year	:2023
Supervisor	:Pandey, R. K. (Prof.) - ME, Subbarao, P. M. V. (Prof.) - ME
Physical description	:xx, 134 p.
Subject terms	:Film thickness relations, Reynolds equation, Engine performance, Engine emissions, Lubrication mechanisms
Barcode	:TH7132
Call No.	:TH 621.43 ATU-T
Title	**:Study of radiopacity for making bioresorbable metal / polymer stents visible in MRI/ CT scan by Alok Srivastava**
Researcher	:Srivastava, Alok
Department	:Department of Mechanical Engineering, IITD
Year	:2023
Supervisor	:Bhatnagar, Naresh (Prof.) - ME
Physical description	:xxi, 148 p.
Subject terms	:Coronary artery disease, X-ray imaging, Biodegradable radiopaque material, Human fibrinogen, Mg alloy composite
Barcode	:TH7161
Call No.	:TH 57.089.6 SRI-S
Title	**:Collective behaviour in non equilibrium active matter by Mohd Yasir Khan**
Researcher	:Khan, Mohd Yasir
Department	:Department of Physics, IITD
Year	:2023
Supervisor	:Babu, Sujin B. (Prof.) - PH
Physical description	:xix, 137 p.
Subject terms	:Fluid dynamics, Reynolds number, Langevin dynamics, Multi particle , collisional dynamics ,Taylor lines, Vicsek agents
Barcode	:TH7115
Call No.	:TH 53:316.454.3 KHA-C

Title	**:Multi-modal and high resolution quantitative phase and fluorescence imaging systems for biological applications by Shilpa Tayal**
Researcher	:Tayal, Shilpa
Department	:Department of Physics, IITD
Year	:2023
Supervisor	:Mehta, Dalip Singh (Prof.) - PH
Physical description	:xxii, 153 p.
Subject terms	:Fluorescence microscopy, Quantitative phase imaging, Adaptive optimization, Nanoscopic system, Temporal phase stability
Barcode	:TH7126
Call No.	:TH 611/612:535.371 TAY-M
Title	**:Highly anisotropic metal nanostructures for SERS-based trace-level molecule detection by Ashwani Kumar Verma**
Researcher	:Verma, Ashwani Kumar
Department	:Department of Physics, IITD
Year	:2023
Supervisor	:Soni, R.K. (Prof.) - PH, Mehta, D.S. (Prof.) - PH
Physical description	:v. p.
Subject terms	:Synthesis techniques, Characterization techniques, X-ray diffraction, Density functional theory, Electromagnetic frequency domain, Fabrication SERS substrates
Barcode	:TH7129
Call No.	:TH 543.42.2 VER-H
Title	**:Optical studies of Ion irradiated silicon based photonic structures by Chandra Prakash Verma**
Researcher	:Verma, Chandra Prakash
Department	:Department of Physics, IITD
Year	:2023
Supervisor	:Prakash, G. Vijaya (Prof.) - PH
Physical description	:xxviii, 197 p.
Subject terms	:Fabrication technologies, Electrochemical etching ,X-ray photoelectron spectroscopy, Optical characterizations ,Cavity resonance tunability
Barcode	:TH7138
Call No.	:TH 621.382:535 VER-O

Title	**:Studies on the linear and nonlinear optical behaviour of colloidal metallic and metalloid nanostructures by Priyadarshini M.**
Researcher	:Priyadarshini M.
Department	:Department of Physics, IITD
Year	:2023
Supervisor	:Prakash, G. Vijaya (Prof.) - PH, Gupta, B. D. (Retired Prof.) - PH
Physical description	:xvi, 154 p.
Subject terms	:Femtosecond laser ablation, Metal (Au) ,Metalloid (Ge), Optical nonlinearities, Gold nanoparticle colloids
Barcode	:TH7149
Call No.	:TH 546.303 PRI-S
Title	**:Feasibility studies of optical spectroscopic sensing in agri-food application by Diksha Garg**
Researcher	:Garg, Diksha
Department	:Department of Physics, IITD
Year	:2023
Supervisor	:Sengupta, Amartya (Prof.) - PH
Physical description	:xix, 164 p.
Subject terms	:Food quality testing, Terahertz spectroscopy, Optical spectroscopic techniques, Optical filters, Instrumentation
Barcode	:TH7155
Call No.	:TH 579.67:664 GAR-F
Title	:**Multifunctional nanomaterials and their composites for biopotential (ECG) sensing synthesis and nanomechanical analysis 2023**
Researcher	:Maithani, Yogita
Department	:Department of Physics, IITD
Year	:2023
Supervisor	:Singh, J.P. (Prof) - PH, Mehta, B. R. (Prof) - PH
Physical description	:xxvii, 176 p.
Subject terms	:Nanocomposites materials, Biopotentials and electrocardiography, Elasticity and plasticity, Flexural strength, Fabrication techniques, Electron microscopy
Barcode	:TH7156
Call No.	:TH 620.1:620.3 MAI-M

Title	**:Study of composite nonwoven structure on the properties of needle punched fabric by Priyal Dixit**
Researcher	:Dixit, Priyal
Department	:Department of Textile and fibre Engineering, IITD
Year	:2023
Supervisor	:Joshi, D. S. (Prof.) - EE, Dixit. Abhishek (Prof.) - EE
Physical description	:xliv, 328 p.
Subject terms	:Nonwoven production, Fabric properties, Air filtration instrument, Fibres of different fineness, Composite nonwoven fabrics
Barcode	:TH7113
Call No.	:TH 676.258 DIX-S
Title	**:Entry and assembly of pathogenic viruses by Chandra Shekhar Kumar**
Researcher	:Chandra Shekhar Kumar
Department	:Kusuma School of Biological Sciences, IITD
Year	:2023
Supervisor	:Banerjee, Manidipa (Prof.) - KSBS
Physical description	:xv, 144 p.
Subject terms	:Protein quantification, Electron microscopy, SARS-CoV-2 VLP production, Chikungunya virus, CHIKV 6K structure, Antigenic characterization of VLPs
Barcode	:TH7143
Call No.	:TH 578 CHA-E

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