



INDIAN INSTITUTE OF SPACE SCIENCE AND TECHNOLOGY

Library

NEW ARRIVALS

(New Books Added to IIST Library on 06.05.2025)



CONTENTS

Sl. No.	Subject
1	Aerospace and Spaceflight Engineering ➤ Control allocation for spacecraft under actuator faults ➤ Development of navigation technology for flight safety ➤ EmDrive advances in spacecraft thrusters and propulsion systems ➤ Fast satellite attitude maneuver and control ➤ Gemini 5 eight days in space or bust
2	Control System Engineering ➤ Dynamic data-driven simulation real-time data for dynamic system analysis and prediction
3	Computer Science and Technology ➤ Artificial intelligence a guide to intelligent systems ➤ Artificial intelligence foundations of computational agents ➤ Artificial intelligence machine learning, convolutional neural networks and large language models ➤ Augmented and virtual reality in industry 5.0 ➤ Autonomous navigation and deployment of UAVs for communication, surveillance and delivery ➤ Awkward intelligence ➤ Beginning anomaly detection using Python-based deep learning ➤ Big data concepts, technologies, and applications ➤ Big data systems ➤ Blockchain for big data ➤ Building computer vision applications using artificial neural networks ➤ Code ➤ Cognitive robotics ➤ Computational intelligence ➤ Computational principles of mobile robotics ➤ Computer networks a systems approach, Vol.1 ➤ Computer networks a systems approach, Vol.2 ➤ Concise introduction to machine learning ➤ Cybersecurity ➤ Data and information quality ➤ Data science and data analytics ➤ Data science and machine learning for non-programmers ➤ Deep learning ➤ Deep learning for 3D vision ➤ Deep learning-powered technologies ➤ Deployable multimodal machine intelligence ➤ Designing with multi-agent systems

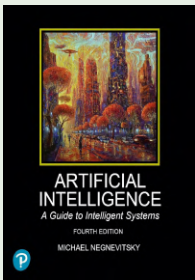
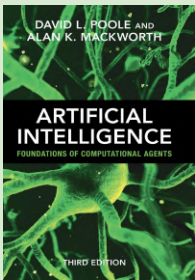
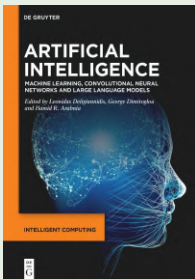
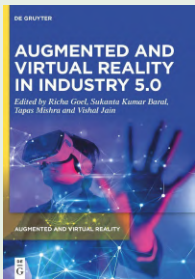
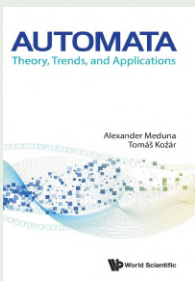
NEW BOOKS ADDED TO IIST LIBRARY ON 06.05.2025

	➤ Digital design and computer architecture ➤ Dive into deep learning ➤ Embedded system design ➤ Fairness and machine learning ➤ Foundations of computer vision ➤ Foundations of probabilistic logic programming ➤ Foundations of robotics ➤ Fundamentals of artificial intelligence
4	Earth Sciences ➤ Climate change an introduction to global warming ➤ Climate change our evolving planet ➤ Climate change today and tomorrow
5	Electrical and Electronics Engineering ➤ Basic semiconductor physics ➤ Digital circuits laboratory manual ➤ Eddy currents ➤ Electrode materials for energy storage and conversion ➤ From 5G to 6G ➤ Fundamentals of semiconductor materials and devices
6	Mathematics ➤ Automata ➤ Basic concepts of algorithms ➤ Basic probability ➤ Bayesian modeling and computation in Python ➤ Boundary value problems for linear partial differential equations ➤ Commutative algebra methods for coding theory ➤ Complex function theory ➤ Computational topology for data analysis ➤ Data analysis for scientists and engineers ➤ Differential equations solving ordinary and partial differential equations with Mathematica ➤ Differential equations an introduction to basic concepts, results and applications ➤ Differential geometry frenet equations and differentiable maps ➤ Elementary linear algebra with applications ➤ Engaging young students in mathematics through competitions world perspectives and practices ➤ Engineering analysis ➤ Exercises and problems in linear algebra ➤ Fibonacci cubes ➤ Functional analysis tools for practical use in sciences and engineering

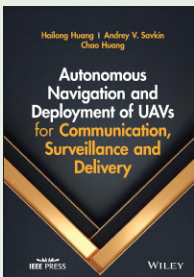
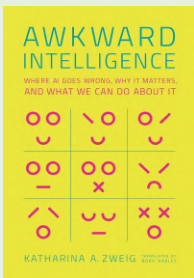
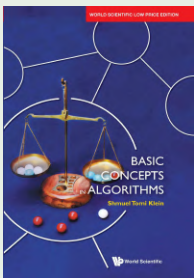
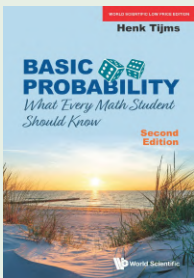
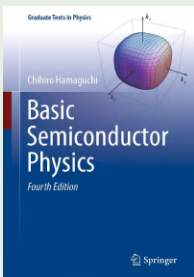
NEW BOOKS ADDED TO IIST LIBRARY ON 06.05.2025

	➤ Fundamentals of analysis with applications ➤ Fundamentals of partial differential equations
7	Mechanical Engineering ➤ Control basics for mechatronics ➤ Fluid power systems ➤ Fundamentals of tribology
8	Physics ➤ Classical and quantum mechanics with lie algebras ➤ Classical theory of electromagnetism ➤ Color for the sciences ➤ Elasticity and fluid dynamics ➤ Electromagnetic fields for engineers ➤ Fourier theory in optics and optical information processing ➤ Fundamentals and applications of colour engineering

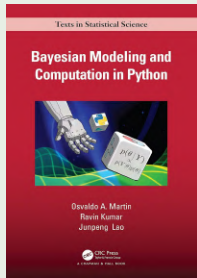
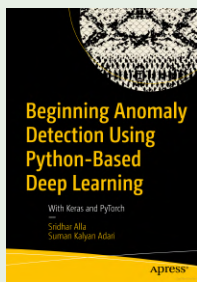
NEW BOOKS ADDED TO IIST LIBRARY ON 06.05.2025

Sl. No.	Acc. No.	Details of the Book		No. of Copies
1	23836		Title: Artificial intelligence a guide to intelligent systems	1
			Author: Negnevitsky, Michael	
			Publisher: United Kingdom: Pearson, 2025	
2	23837		Title: Artificial intelligence foundations of computational agents	1
			Author: Poole, David L	
			Publisher: Cambridge University Press: New York, 2023	
3	23838		Title: Artificial intelligence machine learning, convolutional neural networks and large language models	1
			Editor: Deligiannidis, Leonidas Dimitoglou, George Arabnia, Hamid R	
			Publisher: De Gruyter: Berlin, 2024	
4	23839		Title: Augmented and virtual reality in industry 5.0	1
			Editor: Richa Goel Sukanta Kumar Baral Tapas Mishra Vishal Jain	
			Publisher: De Gruyter: Berlin, 2023	
5	23840		Title: Automata	1
			Author: Meduna, Alexander	
			Publisher: World Scientific: Singapore, 2024	

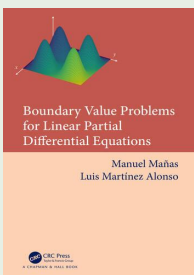
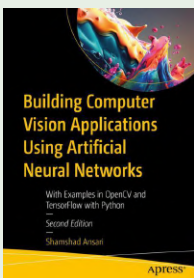
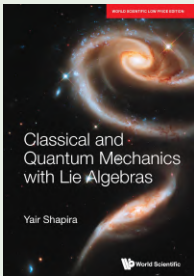
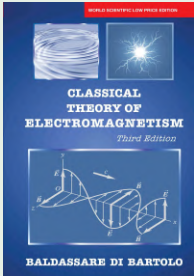
NEW BOOKS ADDED TO IIST LIBRARY ON 06.05.2025

6	23841		Title: Autonomous navigation and deployment of UAVs for communication, surveillance and delivery	1
			Author: Huang, Hailong	
			Publisher: Wiley: Hoboken, 2023	
7	23842		Title: Awkward intelligence	1
			Author: Zweig, Katharina A	
			Publisher: MIT Press: London, 2022	
8	23843		Title: Basic concepts of algorithms	1
			Author: Klein, Shmuel Tomi	
			Publisher: World Scientific: Singapore, 2024	
9	23844		Title: Basic probability	1
			Author: Tijms, Henk	
			Publisher: World Scientific: Singapore, 2023	
10	23845		Title: Basic semiconductor physics	1
			Author: Hamaguchi, Chihiro	
			Publisher: Springer: Switzerland, 2023	
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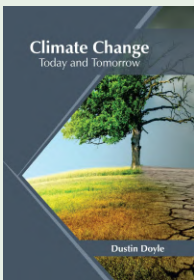
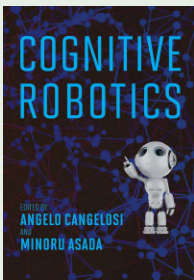
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11	23846		Title: Bayesian modeling and computation in Python	1
			Author: Martin, Osvaldo A	
			Publisher: CRC Press: United States of America, 2022	
12	23847		Title: Beginning anomaly detection using Python-based deep learning	1
			Author: Suman Kalyan Adari	
			Publisher: Apress: United States of America, 2025	
13	23848		Title: Big data concepts, technologies, and applications	1
			Author: Husain, Mohammad Shahid	
			Publisher: CRC Press: Boca Raton, 2024	
14	23849		Title: Big data systems	1
			Author: Shamsi, Jawwad Ahmed	
			Publisher: CRC Press: Boca Raton, 2025	
15	23850		Title: Blockchain for big data	1
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			Publisher: CRC Press: Boca Raton, 2022	
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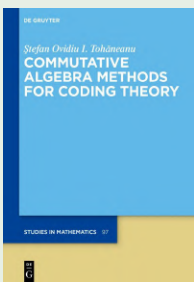
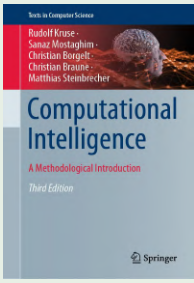
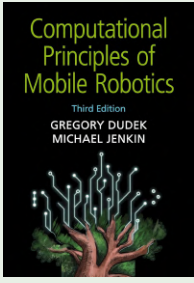
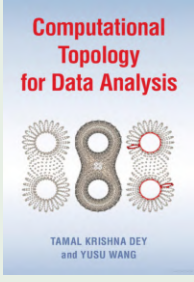
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16	23851		Title: Boundary value problems for linear partial differential equations	1
			Author: Manas, Manuel	
			Publisher: CRC Press: Boca Raton, 2024	
17	23852		Title: Building computer vision applications using artificial neural networks	1
			Author: Ansari, Shamshad	
			Publisher: Apress: New York, 2025	
18	23853		Title: Classical and quantum mechanics with lie algebras	1
			Author: Shapira, Yair	
			Publisher: World Scientific: New Jersey, 2024	
19	23854		Title: Classical theory of electromagnetism	1
			Author: Di Bartolo, Baldassare	
			Publisher: World Scientific: Singapore, 2024	
20	23855		Title: Climate change an introduction to global warming	1
			Author: Hussain, Atif	
			Publisher: Kruger Brentt: United Kingdom, 2024	
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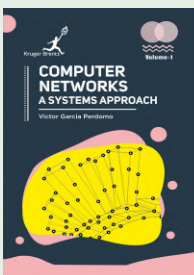
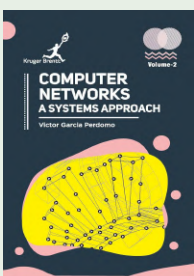
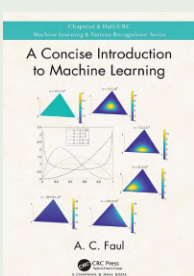
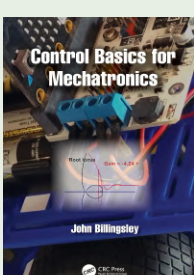
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21	23856		Title: Climate change our evolving planet	1
			Editor: Doyle, Dustin	
			Publisher: Callisto Reference: United States of America, 2023	
22	23857		Title: Climate change today and tomorrow	1
			Editor: Doyle, Dustin	
			Publisher: Syrawood: New York, 2023	
23	23858		Title: Code	1
			Author: Petzold, Charles	
			Publisher: Pearson: Glasgow, 2023	
24	23859		Title: Cognitive robotics	1
			Editor: Cangelosi, Angelo Asada, Minoru	
			Publisher: MIT Press: London, 2022	
25	23860		Title: Color for the sciences	1 Color for the sciences Color for the sciences
			Author: Koenderink, Jan J	
			Publisher: MIT Press: London, 2010	
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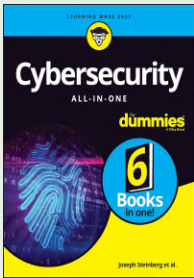
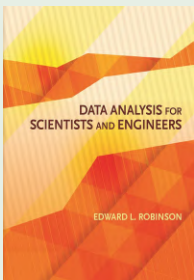
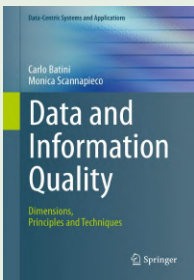
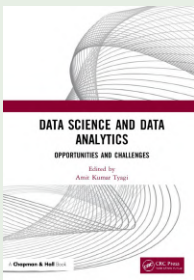
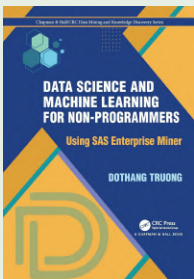
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26	23861		Title: Commutative algebra methods for coding theory	1
			Author: Tohaneanu, Stefan Ovidiu I	
			Publisher: De Gruyter: Boston, 2024	
27	23862		Title: Complex function theory	1
			Author: Fujiwara, Takeo	
			Publisher: World Scientific: Singapore, 2024	
28	23863		Title: Computational intelligence	1
			Author: Kruse, Rudolf	
			Publisher: Springer: Switzerland, 2022	
29	23864		Title: Computational principles of mobile robotics	1
			Author: Dudek, Gregory	
			Publisher: Cambridge University Press: USA, 2024	
30	23865		Title: Computational topology for data analysis	1
			Author: Dey, Tamal Krishna	
			Publisher: Cambridge University Press: United Kingdom, 2022	
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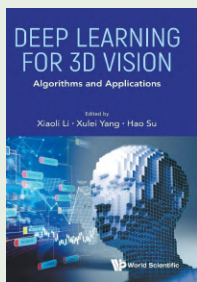
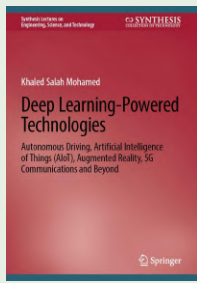
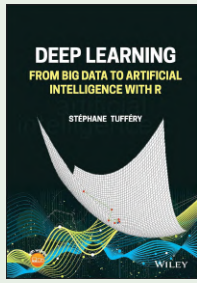
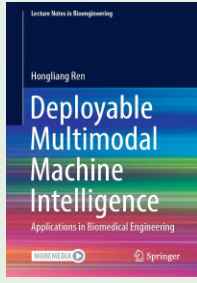
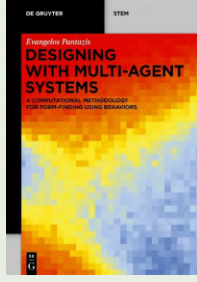
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31	23866		Title: Computer networks a systems approach, Vol.1	1
			Author: Perdomo, Victor Garcia	
			Publisher: Kruger Brentt: United Kingdom, 2025	
32	23867		Title: Computer networks a systems approach, Vol.2	1
			Author: Perdomo, Victor Garcia	
			Publisher: Kruger Brentt: United Kingdom, 2025	
33	23868		Title: Concise introduction to machine learning	1
			Author: Faul, A C	
			Publisher: CRC Press: Boca Raton, 2025	
34	23869		Title: Control allocation for spacecraft under actuator faults	1
			Author: Hu, Qinglei	
			Publisher: Springer: Singapore, 2021	
35	23870		Title: Control basics for mechatronics	1
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			Publisher: CRC Press: Boca Raton, 2024	
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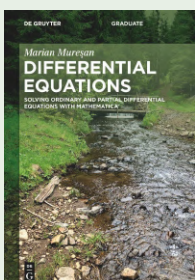
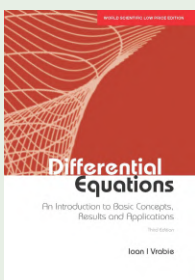
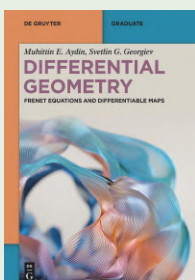
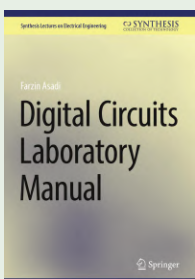
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36	23871		Title: Cybersecurity	1
			Author: Steinberg, Joseph	
			Publisher: John Wiley: New Jersey, 2023	
37	23872		Title: Data analysis for scientists and engineers	1
			Author: Robinson, Edward L	
			Publisher: Princeton University Press: New Jersey, 2016	
38	23873		Title: Data and information quality	1
			Author: Batini, Carlo	
			Publisher: Springer: Switzerland, 2016	
39	23874		Title: Data science and data analytics	1
			Editor: Amit Kumar Tyagi	
			Publisher: CRC Press: Boca Raton, 2025	
40	23875		Title: Data science and machine learning for non-programmers	1
			Author: Truong, Dothang	
			Publisher: CRC Press: Boca Raton, 2024	
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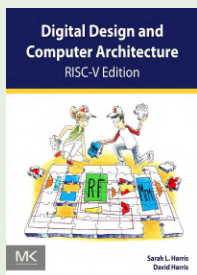
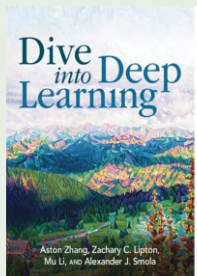
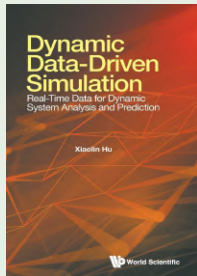
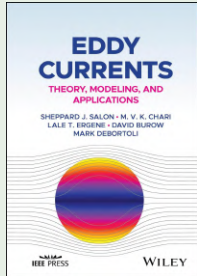
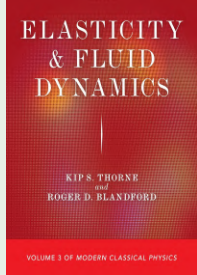
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			Editor: Li, Xiaoli Yang, Xulei Su, Hao	
			Publisher: World Scientific: Singapore, 2024	
42	23877		Title: Deep learning-powered technologies	1
			Author: Mohamed, Khaled Salah	
			Publisher: Springer: Switzerland, 2023	
43	23878		Title: Deep learning	1
			Author: Tuffery, Stephane	
			Publisher: Wiley: United Kingdom, 2023	
44	23879		Title: Deployable multimodal machine intelligence	1
			Author: Ren, Hongliang	
			Publisher: Springer: Singapore, 2023	
45	23880		Title: Designing with multi-agent systems	1
			Author: Pantazis, Evangelos	
			Publisher: De Gruyter: Berlin, 2024	
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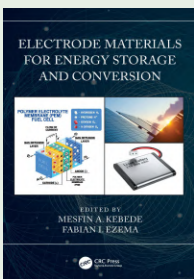
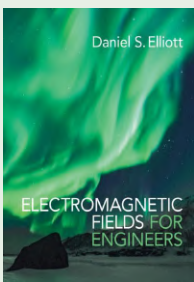
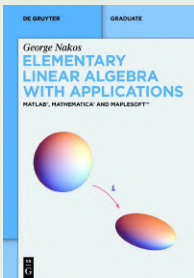
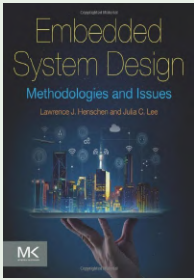
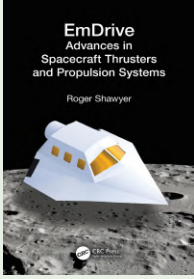
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46	23881		Title: Development of navigation technology for flight safety	1
			Author: Baburov, S V	
			Publisher: Springer: Singapore, 2020	
47	23882		Title: Differential equations solving ordinary and partial differential equations with Mathematica	1
			Author: Muresan, Marian	
			Publisher: De Gruyter: Berlin, 2024	
48	23883		Title: Differential equations an introduction to basic concepts, results and applications	1
			Author: Vrabie, Ioan I	
			Publisher: World Scientific: Singapore, 2024	
49	23884		Title: Differential geometry	1
			Author: Aydin, Muhittin E	
			Publisher: De Gruyter: Berlin, 2024	
50	23885		Title: Digital circuits laboratory manual	1
			Author: Asadi, Farzin	
			Publisher: Springer: Switzerland, 2024	
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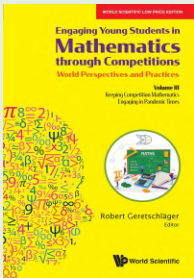
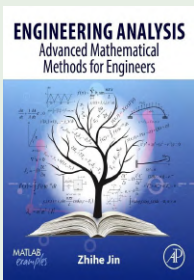
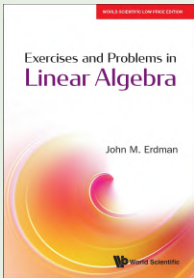
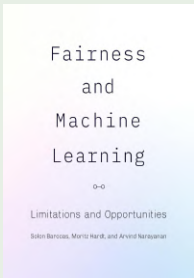
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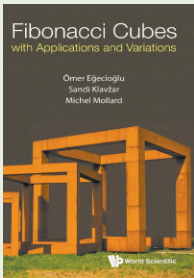
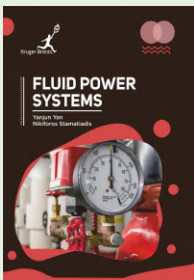
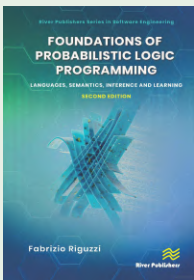
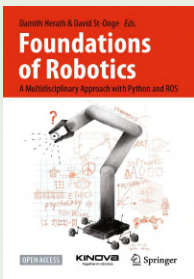
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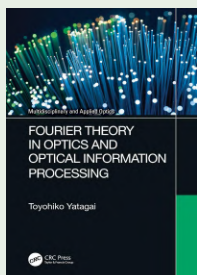
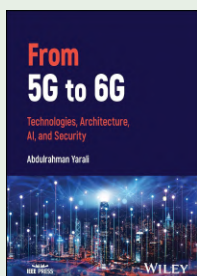
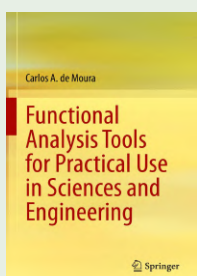
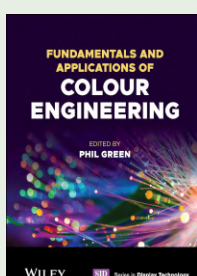
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			Author: Erdman, John M	
			Publisher: World Scientific: Singapore, 2024	
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			Author: Ye, Dong	
			Publisher: London: Academic Press, 2022	
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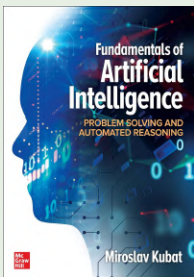
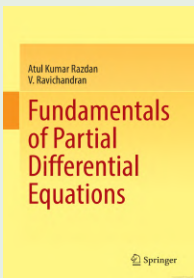
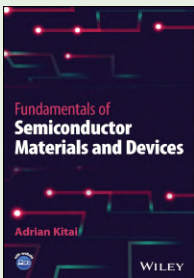
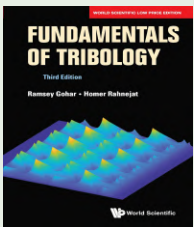
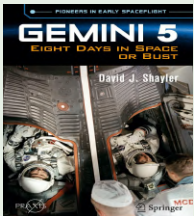
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