

LIST OF BOOK CHAPTERS PUBLISHED FROM 2020 to 2024

Sl. No.	Title of the book chapter	Name of the authors	Department	Year of publication	Title of the book with edition and volume	ISBN/ISSN number	Name of the publisher
2020							
1.	Spectrum Allocation Policies in Flexi-Grid Optical Networks.	Sumalatha M.B., Aishwarya L.M., Triveni C.L.	ECE	2020	Advances in Communication, Signal Processing, VLSI, and Embedded Systems.	978-981-15-0626-0	Electrical Engineering, vol 614. pp 181-193, Springer, Singapore
2.	Micro-mechanical deformation sensor based on ultra-sensitive photonic crystal membrane	Anup M Upadhyaya, Maneesh C Srivastava, Preeta Sharan, Yashaswini PR, Srikanth PC	ECE	2020	IEEE WRAP	-	WRAP
3.	Effect of process engineering on the performance of hybrid fiber composites	Madhu P, Thyavihalli Girijappa YG, Mavinkere Rangappa S, Parameswaranpillai J, Siengchin S	Mechanical	2020	Hybrid fiber composites: materials, manufacturing, process engineering	9.78353E+12	Wiley-VCH Verlag GmbH & Co. KGaA
2021							
1.	Extrapolating Z-axis data for 2D Image on a Single Board Computer	V. Anupama, A Geetha Kiran	CSE	2021	Lecture Notes in Networks and Systems volume 288	978-981-16-5119-9	Singapore
2.	Pressure Sensor Based on Two-Dimensional Photonic-Crystal Ring Resonator . Advances in VLSI, Signal Processing, Power Electronics, IoT, Communication and Embedded Systems	D. L. Lakshmi, Venkateswara Rao Kolli, P. C. Srikanth, D. L. Girijamba, and Indira Bahaddur	ECE	2021		VSPICE 2020	
3.	Optimization of a Stand-Alone Hybrid Renewable Energy System Using Demand-Side Management for a Remote Rural Area in India	M. Ramesh and R. P. Saini	EEE	2021	Algorithms for Intelligent Systems	ISSN 2524-7573	Springer
4.	Mechanical, electrical and thermal behaviour of additively manufactured thermoplastic composites for high performance applications	Jagadeesh P, Madhu P, Girijappa YG, Rangappa SM, Gupta MK, Siengchin S	Mechanical	2021	Additive and subtractive manufacturing of composites	978-981-16-3183-2	Springer Singapore
2022							
1.	Introduction to bio-based fibers and their composites	Madhu P, Praveenkumara J, Sanjay MR, Siengchin S, Gorbatyuk S	Mechanical	2022	Advances in Bio-Based Fiber	978-0-12-824543-9	Woodhead Publishing, Elsevier
2.	Introduction to plant fibers and their composites	Rangappa SM, Madhu P, Parameswaranpillai J, Siengchin S, Ozbakkaloglu T, Wang H	Mechanical	2022	Plant Fibers, their Composites, and Applications	978-0-12-824528-6	Woodhead Publishing, Elsevier
3.	Plastics in automotive applications	Girijappa YG, Ayyappan V, Madhu P, Rangappa SM, Parameswaranpillai J, Siengchin S	Mechanical	2022	Encyclopedia	-	Elsevier
4.	Thermal Properties of Hybrid Natural Fiber-Reinforced Thermoplastic Composites	Vinod, A., Yashas Gowda, Senthilkumar Krishnasamy, M. R. Sanjay, and Suchart Siengchin.	Mechanical	2022	Natural Fiber-Reinforced Composites: Thermal Properties and Applications (9.78353E+12	Wiley-VCH Verlag GmbH & Co. KGaA
5.	Tribological applications of polymer composites	T.G Yashas Gowda, Sanjay M R, Jyotishkumar Parameswaranpillai, Suchart Siengchin, Klaus Friedrich,	Mechanical	2022	Tribology of Polymer Composites: Characterisation, Properties, and Applications	978-0-12-819767-7	Elsevier
6.	Detection of COVID-19 using a Multiscale Deep Learning Network: covid:MSNet, Augmented Intelligence in Health care	S. V. Aruna Kumar, S. Nagashree, B. S. Mahanand	CSE	2022	Augmented Intelligence in Healthcare: A Pragmatic and Integrated Analysis Studies in Computational Intelligence	978-981-19-1075-3	Springer Nature Singapore
7.	Three-level hybrid data security	Spoorthi B S, Pushpa Mala S	ECE	2022	Soft Computing for Security Applications		
8.	Spatial SWOT Analysis: An Approach for Urban Regeneration	Dr. Sumana Jayaprakash	Civil	2022	Recent Advances in Civil Engineering	2366-2557	Springer Nature
2023							
1.	3D Printing of Crystalline Polymers	HS Ashrith, TP Jeevan, HGV Divya	Mechanical	2023	Polymer Crystallization: Methods, Characterization and Applications	9.78353E+12	Wiley-VCH GmbH

2.	Lightweight and sustainable materials for aerospace applications	Nagaraju SB, Priya HC, Girijappa YG, Madhu P	Mechanical	2023	Lightweight and Sustainable Composite Materials	978-0-323-95189-0	Woodhead Publishing, Elsevier
3.	Lightweight and sustainable materials for structural applications	Jagadeesh P, Madhu P, Girijappa YG, Sathyanarayana K, Rangappa SM, Siengchin S, Hassan SA	Mechanical	2023	Lightweight and Sustainable Composite Materials	978-0-323-95189-0	Woodhead Publishing, Elsevier
4.	Metallic lightweight materials: properties and their applications	Karthik S , Madhu P , Sanjay M R , Suchart Siengchin , Pradeep S , Sharath B N , Madhu K S , Premkumar B G , Yashas Gowda T G	Mechanical	2023	Lightweight and Sustainable Composite Materials	978-0-323-95189-0	Woodhead Publishing, Elsevier
5.	"Factor Model of Regenerative Cities	Dr. Sumana Jayaprakash	Civil	2023	Futuristic Trends in Construction Materials & Civil Engineering, Volume 3	Waiting for approval	Iterative International Publisher
2024							
1.	Biometric Authentication and Theft Alert System for Motorcycles Using IoT	Goilkar SS, Prasad SV, Madhu P, Goilkar SS, Chandra S	Mechanical	2024	Contemporary Solutions for Sustainable Transportation Practices	9.79837E+12	IGI Global
2.	Comparison of wet and dry milling	R Raghavendra Rao, BN Sharath, KS Madhu, S Pradeep	Mechanical	2024	Advancements in Powder Metallurgy: processing, Applications, and Properties	978-1-6684-9385-4	IGI Global
3.	Consolidation of Lightweight Alloy Powders: Overcoming the Problems During Pressing and Sintering of Low-Dense Alloy Powders like Aluminium, Magnesium, Titanium, and Beryllium Alloys	BN Sharath, R Raghavendra Rao, KP Rakesh, S Pradeep	Mechanical	2024	Mechanically Alloyed Novel Materials: Processing, Applications, and Properties	978-981-97-6503-4	Springer Nature Singapore
4.	Energy Storage Applications of Mechanically Alloyed Materials Supercapacitors, Battery Applications	R Raghavendra Rao, BN Sharath, Puttaswamy Madhusudan, S Pradeep	Mechanical	2024	Mechanically Alloyed Novel Materials	978-981-97-6503-4	Springer Nature
5.	Fabrication of Intermetallic Alloys	R Raghavendra Rao, BN Sharath, Puttaswamy Madhusudan, S Pradeep	Mechanical	2024	Mechanically Alloyed Novel Materials: Processing, Applications, and Properties	978-981-97-6503-4	Springer Nature Singapore
6.	Finite element analysis of polymeric materials in day-to-day applications	Puttegowda M, Nagaraju SB, Girijappa YG, Puttaswamy JT	Mechanical	2024	Finite Element Analysis of Polymers and Composites	978-0-443-14087-7	Woodhead Publishing, Elsevier
7.	Introduction to bioimplants manufacturing	BN Sharath, TP Jeevan	Mechanical	2024	Bioimplants Manufacturing	9.781E+12	CRC Press
8.	Sintering of mechanically alloyed powders	BN Sharath, R Raghavendra Rao, KS Madhu, S Pradeep	Mechanical	2024	Advancements in Powder Metallurgy: processing, Applications, and Properties	978-1-6684-9385-4	IGI Global
9.	Unveiling the Potential of Age Hardened Aluminum Alloys: Strengthening Solutions for Engineering Challenges	Sharath BN, Madhu P, Pradeep DG, Thanush HG, Kumar KM, Manoj S, Verma A	Mechanical	2024	Hybrid Composite Materials: Experimental and Theoretical Analysis	978-981-97-2103-0	Springer Nature Singapore
10.	Detect and Mitigate Social Engineering attacka by Analyzing Human Interaction patterns	Ayeesha Siddhiqha, Ramesh B, Chandrika J, Arshad Khan	CSE	2024	Innovative Computing and Communications, Volume 2	978-981-97-3591-4	Springer LNNS
11.	Identifying Pepper Seeds Adulteration with Papaya Seeds via pH Sensor Analysis,	Sunitha P., Ramya M., Margaret R. E. and S. P. Preksha Gowda	CSE	2024	Sustainability Entrepreneurship, Equity and Digital Strategies	9.78936E+12	Bloomsbury Prime
12.	Machine Learning for Sustainable Weed Management in Maize Fields: A Prototype solution	P. Sunitha, C. S. Suresh Babu, N. Anagha Dixith, Y. S. Anarghya and Y. M. Shashidhara	CSE	2024	Sustainability Entrepreneurship, Equity and Digital Strategies	9.78936E+12	Bloomsbury Prime
13.	COVID-19 Pandemic's Personal Safety Is Revolutionized by the Smart Mask	Raghu, N., Swetha, G., Druva, Shruthishree, Rekha, Niranjan Kannanugo, & Hemanth Kumar	ECE	2024	Biomedical Research Developments for Improved Healthcare	2470-8542	IGI Global
14.	Enhancing Critical Thinking Through Problem-Based Learning: A Comprehensive Approach to Modern Education	N Raghu, VN Trupti, LN Dayananda, Hemanth Kumar, Smitha Ankanahalli Shankaregowda	ECE	2024	Fostering Teacher Skills and Critical Thinking in Modern Education	2470-8542	IGI global
15.	Modern VLSI Design: System On Chip-Book Chapter, SIPH publications,2024	Prakruthi. H.L	ECE	2024	Modern VLSI Design: System On Chip-Book Chapter		SIPH publications
16.	Highly Sensitive two dimensional Photonic crystal based temperature sensor	Dr. Yashaswini P R , Manasa H S , Kavana K V , Shruthi R , Dr. Venkateswara Rao Kolli , Dr. Srikanth P.C.	ECE	2024	XLVII OSI SYMPOSIUM International Conference on Advances in Optics and Photonics Instrumentation	-	National Press Associates

17.	Characterization of Flexible Concrete Pavements Using Demolition Waste and Laterite	Chethan Kumar N. T.	Civil	2024	Best Practices in Geotechnical and Pavement Engineering	978-981-99-8504-3	Springer Nature
18.	Exploring Walkable Localities as Organizing Principle of City Plan	Dr. Sumana Jayaprakash	Civil	2024	Civil Engineering for Multi-Hazard Risk Reduction	978-981-99-9609-4	Springer Nature
19.	WASTE MANAGEMENT AND RECYCLING: SUSTAINABLE SOLUTIONS FOR A GROWING WORLD	Dr. Kishore Kumar S.	Civil	2024	BRIDGING DISCIPLINES: EXPLORING MULTIDISCIPLINARY RESEARCH FRONTIERS	9.78936E+12	Infinity
20.	Experimental Study on Physical and Morphological Properties of KOH	Dr. Muralidhar N	Civil	2024	Proceedings of the Canadian Society for Civil Engineering Annual Conference 2023, Volume 7	978-3-031-61510-8	Springer Nature
21.	Eco-Conscious Remediation: Harnessing the Power of Natural Coagulants for Dairy Wastewater Treatment”, Water and Environment	H. D. Lavanya, C. Madhushree	Civil	2024	Water and Environment, Volume 2	2366-2557	Springer Nature
22.	Studies on Mechanical Behaviour of Basalt Fibre Reinforced Cement Concrete	Nudi Shree	Civil	2024	Springer Proceedings in Materials, vol 60. Springer, Singapore	978-981-97-7070-0	Springer Nature
23.	ASSESSING THE IMPACT OF POLLUTION ON PUBLIC HEALTH	Krishna Swaroop C D	Civil	2024	TRANSCENDING BOUNDARIES: NEW DIMENSIONS IN MULTIDISCIPLINARY RESEARCH		Infinity
2025							
1.	An introduction to metal matrix composites and their applications	Madhu KS, Sharath BN, Karthik S, Pradeep DG, Puttegowda M, TG YG, Premkumar BG, Rao RR	Mechanical	2025	Applications of Composite Materials in Engineering	978-0-443-13989-5	Woodhead Publishing, Elsevier
2.	An introduction to polymer matrix composites and their applications	Puttegowda M, Sharath BN, TG YG, Rangappa SM, Siengchin S	Mechanical	2025	Applications of Composite Materials in Engineering	978-0-443-13989-5	Woodhead Publishing, Elsevier
3.	Evolution and recent advancements of composite materials in rapid prototyping	Puttaswamy JT, Puttegowda M, TG YG, Vedavathi DH	Mechanical	2025	Applications of Composite Materials in Engineering	978-0-443-13989-5	Woodhead Publishing, Elsevier
4.	Morphology and characterization of surface-treated fibers	Jeevan TP, TG YG, Divya HV, Madhu P	Mechanical	2025	Surface Modification and Coating of Fibers, Polymers, and Composites	978-0-443-22029-6	Elsevier
5.	Prospects of synthetic fiber reinforced polymer composites in engineering and commercial applications	Sharath BN, TG YG, Puttegowda M	Mechanical	2025	Applications of Composite Materials in Engineering	978-0-443-13989-5	Woodhead Publishing, Elsevier
6.	Framework Towards Detection of Stress Level Through Classifying Physiological Signals Using Blockchain Technology."	Naveen Kumar, C.M	CSBS	2025	AI in Real-Time Systems. IGI Global Scientific Publishing.	ISBN13: 9798369373675	IGI Global Scientific Publishing, 2025.