

Books and Book Chapters

Books

1. Nanoelectronic Devices for Hardware/Software Security

Balwinder Raj, Arun Kumar CRC Press, Taylor & Francis, Nov 2021 (ISBN 9780367645427)

2. Multifunctional MIMO Antennas: Fundamentals and Applications

Yadwinder Singh, Shrivishal Tripathi, Balwinder Raj CRC Press, Taylor & Francis, March 2022 (ISBN 9781032190341)

3. Advanced Circuits and Systems for Healthcare and Security Applications

Balwinder Raj, B B Gupta, Jeetendra Singh CRC Press, Taylor & Francis, 8 September 2022 (ISBN 9781032039077)

4. AI for big data based engineering applications from the Security perspectives

Balwinder Raj, B B Gupta, Sandeep Singh Gill CRC Press, Taylor & Francis, Dec 2022 (ISBN 9781032136134).

5. 3D Printing of Sensors, Actuators, and Antennas for Low-Cost Product

Manufacturing Rupinder Singh, Balwinder Singh Dhaliwal, Shyam Sundar Pattnaik CRC Press, Taylor & Francis Ltd., February 2023. ISBN 9781032046808, eBook ISBN 9781003194224 DOI: <https://doi.org/10.1201/9781003194224>

6. Fractal Antenna Design using Bio- inspired Computing Algorithms

Balwinder S. Dhaliwal, Suman Pattnaik, Shyam Sundar Pattnaik Bentham Science Publishers Pte. Ltd. Singapore, June 2023

<https://doi.org/10.2174/97898151363571230101>

BOOK Chapters

1. Comparative Analysis of OFET for Low Power Flexible Electronic Devices Manufacturing

Bodade Sandip Vasudeo, Banoth Krishna, Parveen Kumar, Sandip Singh Gill, Balwinder Raj CRC Press, Taylor & Francis, April 2021

2. Design and Analysis of VTFET Nanoscale device for Healthcare Safety System

Shailendra Singh, Sanjeev Kumar Bhalla, Jeetendra Singh, Shilpi Gupta, Balwinder Raj, N K Yadav CRC Press, Taylor & Francis, Aug. 2021

3. TFET-based Sensor Design for Health care Applications

Tulika Chawla, Mamta Khosla, Balwinder Raj CRC Press, Taylor & Francis, Aug. 2021

4. Design and investigation of various Memristor Models for Neuromorphic

Shailendra Singh, Raghav Dwivedi, Jeetendra Singh, Balwinder Raj in Book "Nanoscale Memristor Device and Circuits Design", Micro & Nano Technology Books, Elsevier, June 2022.

5. Spintronics for AI

Parul Sharma, Sandeep Singh Gill, Balwinder Raj in Book "AI for big data based engineering applications from the Security perspectives" CRC Press, Taylor & Francis, December 2022

6. Emerging Non-volatile Memories for AI Applications

Mandeep Singh, Tarun Chaudhary, Balwinder Raj in Book "AI for big data based engineering applications from the Security perspectives" CRC Press, Taylor & Francis, Dec 2022

7. Advancement of Neuromorphic Computing Systems with Memristors

Jeetendra Singh, Vikas Patel, Balwant Raj, Shailendra Singh and Balwinder Raj in Book "Nanoscale Memristor Device and Circuits Design" Micro & Nano Technology Books, Elsevier, June 2022

8. 3D Printing in Antenna Design

Atul M. Kulkarni, Garima Saini, Shyam S. Pattnaik, Ravindra A. Pardeshi in Book "3D Printing of Sensors, Actuators, and Antennas for Low-Cost Product Manufacturing" CRC Press, eBook ISBN9781003194224 doi.org/10.1201/9781003194224

9. Investigation of Impact of Mobile Phone Radiations on EEG/ECG and Modeling of Their Coherence Using ANN Ensemble

Suman Pattnaik, Balwinder S. Dhaliwal, Shyam S. Pattnaik in Book "Artificial Intelligence and Sustainable Computing - Algorithms for Intelligent Systems" Springer, Singapore.
https://doi.org/10.1007/978-981-19-1653-3_33

10. Introduction to 3D Printing of Sensors, Actuators, and Antennas for LowCost Product Manufacturing

Jayant G. Joshi, Mandar P. Joshi, Balwinder S. Dhaliwal, Shyam S. Pattnaik In Book "3D Printing of Sensors, Actuators, and Antennas for Low-Cost Product Manufacturing" CRC Press, Taylor & Francis Ltd., February 2023

11. 3D printing of sensors, actuators, and antennas: Materials & Processes

Chahat Jain, Balwinder S. Dhaliwal, Rupinder Singh In Book "3D Printing of Sensors, Actuators, and Antennas for Low-Cost Product Manufacturing" CRC Press, Taylor & Francis Ltd., February 2023

12. A Unique Multident Wide Band Antenna for TV White Space Communication Applications

Ankit Meghwal, Garima Saini, Balwinder Singh In Book "Algorithms for Intelligent Systems" Springer Singapore, February 24, 2023 https://doi.org/10.1007/978-981-19-8742-7_60

13. Precision Measurements in Healthcare Systems and Device

Ravinder Agarwal, Amod Kumar and Sanjay Yadav In book "Handbook of Metrology and Applications" Springer, April 2023

14. Assessment and Elimination of Surgeon Hand Tremor During Robotic Surgery

Amod Kumar, Sanjeev Kumar, Akhlesh Kumar In book "Handbook of Metrology and Applications" Springer, April 2023

15. AI-Based ECG Signal Monitoring System for Arrhythmia Detection Using IoMT

Pushparaj, Amod Kumar, Garima Saini In book "AI for Big Data-Based Engineering Applications from Security Perspectives, June 2023