

# Book Chapter Publications

2021-2022

1. Verma, R., Kumar, S. (2022). Temperature Distribution in Living Tissue with Two-Dimensional Parabolic Bioheat Model Using Radial Basis Function. In: Ray, S.S., Jafari, H., Sekhar, T.R., Kayal, S. (eds) Applied Analysis, Computation and Mathematical Modelling in Engineering. Lecture Notes in Electrical Engineering, vol 897. Springer, Singapore.  
[https://doi.org/10.1007/978-981-19-1824-7\\_24](https://doi.org/10.1007/978-981-19-1824-7_24)
2. Gupta R., Kumar S. (2021) Solution of Variable-Order Space Fractional Bioheat Equation by Chebyshev Collocation Method. In: Awasthi A., John S.J., Panda S. (eds) Computational Sciences - Modelling, Computing and Soft Computing. CSMCS 2020. Communications in Computer and Information Science, vol 1345. Springer, Singapore.  
[https://doi.org/10.1007/978-981-16-4772-7\\_11](https://doi.org/10.1007/978-981-16-4772-7_11)
3. S. Tilva, J. Dhodiya (2022), Evolutionary Approaches in Engineering Applications, Industrial Transformation Implementation and Essential Components and Processes of Digital Systems, 1st Edition, CRC Press, Vol-1 Chapter-8, PP: 173-190, Taylor & Francis.  
<https://doi.org/10.1201/9781003229018>
4. Tilva, S., & Dhodiya, J. (2021). Role of evolutionary approaches to solving multi-objective optimization problems. Computational Management: Applications of Computational Intelligence in Business Management, 18, 429-453. Springer, Cham. (Scopus).  
<https://doi.org/10.1007/978-3-030-72929-5-20>.
5. Tilva, S., & Dhodiya, J. (2022). Developing a Meta-Heuristic Method for Solving Multi-objective COTS Selection Problems. Mathematical Modeling, Computational Intelligence Techniques and Renewable Energy, 285-297. Springer, Singapore. (Scopus, Web of Science).  
<https://doi.org/10.1007/978-981-16-5952-2-25>.
6. Anita Ravi Tailor, Dhiren Pandit, Jayesh M. Dhodiya (2022), Multi-Objective Interval Assignment Problems and their Solutions Using Genetic Algorithms, Industrial Transformation Implementation and Essential Components and Processes of Digital Systems, 1st Edition, CRC Press, Vol-1 Chapter-7, PP: 143-172 (2022) Taylor & Francis.  
<https://doi.org/10.1201/9781003229018>
7. Anita R. Tailor and Jayesh M Dhodiya (2022), Uncertain Multi-Objective COTS Product Selection Problems for Modular Software System and Their Solutions by Genetic Algorithm, Computational Intelligence Applications for Software Engineering Problems, Apple Academic Press, CRC Press, **Taylor & Francis** Group, Hard ISBN: 9781774910467.
8. Gender Equity: Challenges and Opportunities: Proceedings of 2nd International Conference of Sardar Vallabhbhai National Institute of Technology, Surat, Eds. Mahajan, V., Chowdhury, A., Kaushal, U., Jariwala, N., Bong, S.A. Springer, Singapore.
9. Twinkle R. Singh, Chapter on Study on Approximate Analytical Method with Its Application Arising in Fluid Flow, of Book on Porous Fluids - Advances in Fluid Flow and Transport Phenomena in Porous Media, submitted: September 9th, 2020 Reviewed: April 2nd, 2021 Published: May 6th, 2021.  
[DOI: 10.5772/intechopen.97548](https://doi.org/10.5772/intechopen.97548)

# **Book Chapter Publications**

10. J. P. Chauhan, R. K. Jana, J. J. Nieto, P. V. Shah and A. K. Shukla, Fractional Calculus Approach to Logistic Equation and its Application, Chapter 15, pp. 261-274, In: P. Debnath, H. M. Srivastava, P. Kumam and B. Hazarika (Eds.), Fixed Point Theory and Fractional Calculus, Forum for Interdisciplinary Mathematics, Springer, Singapore, 2022.
11. Dr. R. K. Jana acted as Editorial Board Member of the Proceeding of International Conference on Physical Sciences (ICPS-2021) held at SVNIT, Surat. Selected papers have been published Proceedings International Platinum Open Access Journal (ISSN 2668-6384), Vol. 3, Issue 2, 2021.
12. Ramakanta Meher:Textbook on Ordinary Differential Equations, A Theoretical Approach ISBN: 9788770227636; e-ISBN: 9788770227629, River Publishers, USA.
13. Ramakanta Meher:Textbook on Applied Integral Equations, Sciendo-2021, DeGryuter Publications, Poland.  
<https://doi.org/10.0000/9788366675575>
14. Ramakanta Meher: Text Book on Numerical Approximation of Linear and Nonlinear Integral Equations, Central West Publishing Australia. ISBN-10: 1922617105, ISBN-13 : 978-1922617101
15. Ramakanta Meher ,R.Yadav and V.N Mishra : Some Approximation Results on Durrmeyer Modification of Generalized Szász–Mirakjan Operators, Advances in Mathematical Modelling, Applied Analysis and Computation, Springer Nature Singapore Pte Ltd.  
DOI: [https://doi.org/10.1007/978-981-19-0179-9\\_9](https://doi.org/10.1007/978-981-19-0179-9_9)
16. Ramakanta Meher,Ajay Kumar: Solving Non-linear Partial Differential Equations Using Homotopy Analysis Method (HAM),Nonlinear Dynamics and Applications,Springer Nature Singapore Pte Ltd.  
[https://doi.org/10.1007/978-3-030-99792-2\\_81](https://doi.org/10.1007/978-3-030-99792-2_81)

## **2020-2021**

1. Bansu H., Kumar S., Meshless Method for Numerical Solution of Fractional Pennes Bioheat Equation. In: Lim C.T., Leo H.L., Yeow R. (eds) 17th International Conference on Biomedical Engineering. ICBME 2019. IFMBE Proceedings, vol 79. Springer, Cham. (2021). [https://doi.org/10.1007/978-3-030-62045-5\\_2](https://doi.org/10.1007/978-3-030-62045-5_2)
2. Tailor A.R., Dhodiya J.M., Multi-objective Assignment Problems and Their Solutions by Genetic Algorithm. In: Patnaik S., Tajeddini K., Jain V. (eds) Computational Management. Modeling and Optimization in Science and Technologies, vol 18. pp 409-428, Springer, Cham (2021). [https://doi.org/10.1007/978-3-030-72929-5\\_19](https://doi.org/10.1007/978-3-030-72929-5_19)
3. Kakran V.Y., Dhodiya J.M., Uncertain Multi-objective Transportation Problems and Their Solution. In: Patnaik S., Tajeddini K., Jain V. (eds) Computational Management. Modeling and Optimization in Science and Technologies, vol 18. pp 359-380 Springer, Cham (2021), Cham. [https://doi.org/10.1007/978-3-030-72929-5\\_17](https://doi.org/10.1007/978-3-030-72929-5_17)

# **Book Chapter Publications**

4. Tilva S., Dhodiya J.M., Role of Evolutionary Approaches to Solving Multi-objective Optimization Problems. In: Patnaik S., Tajeddini K., Jain V. (eds) Computational Management. Modeling and Optimization in Science and Technologies, vol 18. pp 429-453 Springer, Cham (2021), Cham. [https://doi.org/10.1007/978-3-030-72929-5\\_20](https://doi.org/10.1007/978-3-030-72929-5_20)
5. Anita R. Tailor and Jayesh M Dhodiya, Uncertain Multi-Objective COTS Product Selection Problems for Modular Software System and Their Solutions by Genetic Algorithm, Computational Intelligence Applications for Software Engineering Problems, Apple Academic Press, CRC Press, Taylor & Francis Group, Hard ISBN: 9781774910467, (2021).
6. Ramakanta Meher: A Textbook on Engineering Mathematics , Sciendo-2021, De Gryuter Publications, Poland.  
DOI: <https://doi.org/10.2478/9788366675346>; ISBN:9788366675346; Published –Mar-2021.
7. Ramakanta Meher : An Introduction to Calculus of variations and Integral Equations, Sciendo-2021, DeGryuter Publications, Poland.  
DOI: <https://doi.org/10.2478/9788366675445>; ISBN: 9788366675445, Published –Apr-2021
8. Ramakanta Meher: Numerical Approximation of Linear and Nonlinear Integral Equations, Central West Publishing, Australia. ISBN-10: 1922617105, ISBN-13 : 978-1922617101. Published –June-2021
9. P. Panja and R. K. Jana, Optimal Control of a Nipah Virus Transmission Model, Chapter 7, pp. 127-146, in: J. Mishra, R. Agarwal and A. Atangana (Eds.), Mathematical Modeling and Soft Computing in Epidemiology, CRC Press, Boca Raton, 2021. <https://doi.org/10.1201/9781003038399>.
10. Study on Approximate Analytical Method with Its Application Arising in Fluid Flow, By Twinkle R. Singh, submitted: September 9th 2020Reviewed: April 2nd 2021 Published: May 6th 2021, DOI: [10.5772/intechopen.97548](https://doi.org/10.5772/intechopen.97548)

## **2019-2020**

1. Kakran V.Y., Dhodiya J.M. Fuzzy Programming Technique for Solving Uncertain Multi-objective, Multi-item Solid Transportation Problem with Linear Membership Function. In: Venkata Rao R., Taler J. (eds) Advanced Engineering Optimization Through Intelligent Techniques. Advances in Intelligent Systems and Computing, vol 949(2020). Springer, Singapore, [doi.org/10.1007/978-981-13-8196-6\\_50](https://doi.org/10.1007/978-981-13-8196-6_50).
2. Sunil B. Bhoi and Jayesh M. Dhodiya, Multi-objective Faculty Course Timeslot Assignment Problem with Result- and Feedback-Based Preferences, Y.-C. Hu et al. (eds.), Ambient Communications and Computer Systems, Advances in Intelligent Systems and Computing 1097, Springer Nature Singapore Pte Ltd. Vol: 1097, pp: 105-119, (2020), ISSN 2194-5357, 2020, [https://doi.org/10.1007/978-981-15-1518-7\\_9](https://doi.org/10.1007/978-981-15-1518-7_9)

# **Book Chapter Publications**

3. Tailor A.R., Dhodiya J.M., GA-Based Hybrid Approach to Solve Fuzzy Multi-objective Optimization Model of Multi-application-Based COTS Selection Problem. In: Venkata Rao R., Taler J. (eds) Advanced Engineering Optimization Through Intelligent Techniques. Advances in Intelligent Systems and Computing, vol 949 (2020). Springer, Singapore, [doi.org/10.1007/978-981-13-8196-6\\_8](https://doi.org/10.1007/978-981-13-8196-6_8).
4. R. L. Das and R. K. Jana, Some studies on EPQ model of substitutable products under Imprecise Environment, Chapter 25, in: N. H. Shah and M. Mittal (Eds.), Optimization and Inventory Management, 2019, pp. 331-360, Springer Nature, Singapore. [https://doi.org/10.1007/978-981-13-9698-4\\_18](https://doi.org/10.1007/978-981-13-9698-4_18)

## **2018-2019**

1. Rashik Shah, Jayesh M. Dhodiya, Fuzzy preference based mathematical model for faculty course timeslot assignment for remaining courses, 23rdISTE State annual faculty Convention 2018 with National conference on Role of Innovation and Human values in Engineering and Technology” Jointly organized by ISTE and SSASIT, Surat ISBN:978-93-5346-457-8
2. R. L. Das and R. K. Jana, Some studies on EPQ model of substitutable products under Imprecise Environment, Chapter 18, in: N. H. Shah and M. Mittal (Eds.), Optimization and Inventory Management, Springer Nature, Singapore.

## **2017-2018**

1. Ghadiyali T., Lad K., Dhodiya J., Design and Development of the Agricultural Model: A Way to Connect Farmer Community to Agriculture Market for Betterment of Rural Development. In: Saini A., Nayak A., Vyas R. (eds) ICT Based Innovations. Advances in Intelligent Systems and Computing, vol 653. Springer, Singapore (2018).

## **2016-2017**

1. Urvashi Kaushal, book review of “Contemporary Diasporic South Asian Women's Fiction: Gender, Narration and Globalisation” by Ruvani Ranasinha, Palgrave Macmillan 2016, ISBN 978-1-137-40305-6, Sep 17, 2016.  
<http://www.grfdt.com/PublicationDetails.aspx?Type=Book%20Review&TabId=7056>
2. Ramchandra Joshi and Urvashi Kaushal. Book review of “Parsis in India and the Diaspora” ed. John R. Hinnells and Alan Williams.  
<http://www.grfdt.com/PublicationDetails.aspx?Type=Book%20Review&TabId=7049>  
Publication Date: Friday, Jul 08, 2016.
3. Urvashi Kaushal. Book Review of Sleeping on Jupiter by Anuradha Roy to Literati (A Peer- Reviewed journal Devoted to English Language & Literature) Summer & Winter (6.1&6.2) 2016. P- 126-128.