

Tematica

- Monitorizarea apelor de suprafață
- Prelucrarea datele experimentale în vederea utilizării pentru dezvoltarea de unelte software
- Programare în MATLAB pentru modelare matematică și control de proces
- Modelarea matematică a transportului de impuls și masa în rauri

Bibliografia

1. Bartram, J., & Ballance, R. (Eds.). (1996). *Water quality monitoring: A practical guide to the design and implementation of freshwater quality studies and monitoring programmes*. United Nations Environment Programme & World Health Organization.
<https://www.researchgate.net/publication/253953121>
2. U.S. Geological Survey. (2006). *National field manual for the collection of water-quality data (Techniques of Water-Resources Investigations, Book 9)*. U.S. Department of the Interior.
<https://www.usgs.gov/mission-areas/water-resources/science/national-field-manual-collection-water-quality-data-nfm>
3. Pennsylvania Department of Environmental Protection. (2016). *Water quality monitoring protocols for streams and surface waters*.
https://files.dep.state.pa.us/water/Drinking%20Water%20and%20Facility%20Regulation/WaterQualityPortalFiles/Technical%20Documentation/MONITORING_BOOK.pdf
4. U.S. Environmental Protection Agency (EPA). (1982). *Handbook for sampling and sample preservation of water and wastewater*. EPA-600/4-82-029.
<https://nepis.epa.gov/Exe/ZyPURL.cgi?Dockey=30000QSA.TXT>
5. Hangos K.M., Cameron I.T., 2001, Process Modelling and Model Analysis, Volume 4, 1st Edition, Academic Press. Paperback ISBN: 9780123994776
https://books.google.ro/books/about/Process_Modelling_and_Model_Analysis.html?id=1zkfhayLD7gC&redir_esc=y
6. Russell, S., Norvig, P., 2021. Artificial Intelligence: A Modern Approach 4th edition [AIMA], Pearson Education, <http://aima.eecs.berkeley.edu/>
7. Agachi, P.S., Cristea, V.M., Csavdari, A., Szilagyi, B., 2024. Advanced Process Engineering Control. Berlin, Boston: De Gruyter.
<https://doi.org/10.1515/9783110789737>
8. Howard, P., 2005. Partial Differential Equations in MATLAB 7.0. Lecture Notes. Course at Texas A&M University, <http://www.tem.uoc.gr/~marina/pdemat.pdf> and also <https://www.math.tamu.edu/~phoward/>
9. Simon Haykin, Neural Networks A Comprehensive Foundation, Mcmillan Publishing Company, Englewood Cliffs, NJ 07632, 1999. ISBN 81-7808-300-0.
10. Xue, D., Chen Y., 2009. Solving applied mathematical problems with MATLAB. Chapman & Hall/CRC, Boca Raton, USA.
11. Partial Differential Toolbox, MATLAB, User Guide.
12. Neural Network Toolbox, MATLAB, User Guide.