

ECE INFORMATION

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Education:

- D. Sci. (degree of exceptional distinction) Hungarian Academy of Sciences, 1979.
- Ph.D.: Electrical Engineering, Leningrad Electrotechnical University, 1965.
- M.S.: Engineering Physics, Leningrad Polytechnical University, 1960.

Research Interests:

Complexity, Agent-based simulation, N-person games, Charged particle beams and optics.

Teaching Interests:

Complexity, Agent-based simulation, Physical Electronics, Electromagnetism, Artificial Intelligence, Analytical methods in Electrical Engineering.

Textbooks Published:

1. Nagy, G. A. and Szilagyi, M., Introduction to the Theory of Space-Charge Optics, Publishing House of the Hungarian Academy of Sciences, Budapest, 1967. Monograph.
2. Nagy, G. A. and Szilagyi, M., Introduction to the Theory of Space-Charge Optics, (Revised and expanded, Foreword by Dennis Gabor), Macmillan & Halsted Press, London-New York, 1974. Monograph. (Also published in Chinese.)
3. Selmeczi, K. and Szilagyi, M., Physics I., Technical Publishing House, Budapest, 1975, 1979, 1983, 1994. Textbook.
4. Selmeczi, K. and Szilagyi, M., Physics II, Technical Publishing House, Budapest, 1977, 1979, 1983, 1994. Textbook.
5. Szilagyi, M. (General Editor), Encyclopedia of Physics, Technical Publishing House, Budapest, 1977. Encyclopedia.
6. Szilagyi, M., Reduction of Aberrations of Electron Optical Systems, Hungarian Academy of Sciences, Budapest, 1977. Monograph.

7. Szilagyi, M. (General Editor), Fachlexikon Physik, VEB Fachbuchverlag, Leipzig, 1979. Encyclopedia.

8. Szilagyi, M., Algorithms, Programming and Mathematics, self-published. Monograph.

9. Szilagyi, M., Electron and Ion Optics, Plenum Publishing Corporation, New York, 1988. Monograph. (Also published in Russian: Mir Press, Moscow-Leningrad, 1991.)

10. Szilagyi, M.: Neural Networks, Computer Science Department, Aarhus University, Aarhus, Denmark, 1989. Lecture Notes.

11. Szilagyi, M., How To Save Our Country: A Nonpartisan Vision for Change, Pallas Press, 1993. Monograph.

12. Szilagyi, M., The Story of My Times I. Humble Beginnings, Scribd, 2007.

13. Szilagyi, M., The Story of My Times II. In the Wrong Place at the Wrong Time, Scribd, 2011.

