

(Fisher) Yumin Zhang

Professor
Department of Engineering and Technology
Southeast Missouri State University
semo.edu/colleges-departments/stem/engineering-tech/

One University Plaza, MS 6825
Cape Girardeau, MO 63701, USA
Phone: (573) 651-2391
Email: ymzhang@semo.edu

EDUCATION:

- Ph.D. **Electrical Engineering**, University of Minnesota, Twin Cities.
- M.S. **Electrical Engineering**, University of Minnesota, Twin Cities.
- M.S. **Physics**, Zhejiang University, Hangzhou (China).
- B.S. **Mechanical Engineering**, Tsinghua University, Beijing (China).

EXPERIENCE:

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|-------------------|--|
| 08/2007 – Present | Department of Physics and Engineering Physics
Southeast Missouri State University
Assistant/Associate/Professor |
| 08/2001 – 08/2007 | School of Electrical and Computer Engineering
Oklahoma State University, Stillwater
Assistant Professor |
| 09/2000 – 08/2001 | Department of Electrical Engineering
University of Wisconsin, Platteville
Assistant Professor |
| 12/1989 – 07/1995 | Institute of Semiconductors, Chinese Academy of Sciences, Beijing (China)
Member of Technical Staff <ul style="list-style-type: none">• Characterization of semiconductor heterostructures• Fabrication and test of semiconductor devices• Simulation of transport and optical process in semiconductor heterostructures |

RESEARCH INTERESTS:

- Semiconductor Physics and Devices
- Electromagnetic Waves
- Digital, Analog, RF/Microwave Circuits
- Neural Network and Machine Learning
- Dynamic Systems
- Engineering Education

PROFESSIONAL SOCIETIES:

- Institute of Electrical and Electronic Engineering (IEEE)
- American Physics Society (APS)
- American Society for Engineering Education (ASEE)

PUBLICATIONS:

Book

Yumin Zhang, *Concise Electronic Circuits* (in Chinese), to be published by Tsinghua University Press.

Yumin Zhang, *Essential Engineering Thermodynamics: A Student's Guide*. Springer, 2018. ISBN-13: 978-1681734255.

Yumin Zhang, *The Tao of Microelectronics*, IOP Concise Physics, 2014. ISBN: 978-16270-54539 (eBook), 978-16270-54522 (Print).

Yumin Zhang, *Roots and Branches: A Systematic Way of Learning Chinese Characters*, Outskirts Press, 2013. ISBN: 978-14787-10790.

Book Chapter

Chapter Title: “Theory, Experiments and Applications of Chiral Metamaterials” (Chapter 1)

Book Title: *Advances in Materials Science Research*, Volume 28. Edited by: Maryann C. Wythers. Nova Science Publishers, Hauppauge, NY, 2017. ISBN: 978-1-53610-892-7.

Chapter Title: “Dynamic Systems with Multiple Elements” (Chapter 5)

Book Title: *Systems Thinking: Foundation, Uses and Challenges*. Edited by: M. Frank, S. Kordova, and H. Shaked. Nova Science Publishers, Hauppauge, NY, 2016. ISBN: 978-1-63485-241-8.

Chapter Title: “Transport Process in Nanoscale Transistors” (Chapter 10)

Book Title: *Doped Nanomaterials and Nanodevices*, American Scientific Publishers, 2010. ISBN: 978-1588831101.