

Introduction to Numerical Electrostatics Using MATLAB (Wiley - IEEE)

By Lawrence N. Dworsky

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Readers are guided step by step through numerous specific problems and challenges, covering all aspects of electrostatics with an emphasis on numerical procedures. The author focuses on practical examples, derives mathematical equations, and addresses common issues with algorithms. **Introduction to Numerical Electrostatics** contains problem sets, an accompanying web site with simulations, and a complete list of computer codes.

- Computer source code listings on accompanying web site
- Problem sets included with book
- Readers using MATLAB or other simulation packages will gain insight as to the inner workings of these packages, and how to account for their limitations
- Example computer code is provided in MATLAB
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Editorial Review

Review

"The author well organized fundamental theories on electrostatics and also presented numerical examples, in which typical numerical methods, e.g., finite difference method, finite element method, and method of moment, are introduced and demonstrated by Matlab." (*Zentralblatt MATH*, 1 October 2014)

About the Author

Lawrence N. Dworsky earned his PhD and BEE in Electrical Engineering at New York University and his Masters of Electrical Engineering at Princeton University. He was an Assistant Professor of Mathematics at Union Community College and an Assistant Professor of Electrical Engineering at Columbia University. From 1974 until 2002, Dr Dworsky served on the technical staff of Motorola, Inc. He has 39 issued U.S. Patents and has authored numerous technical articles. This is his fourth book.

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