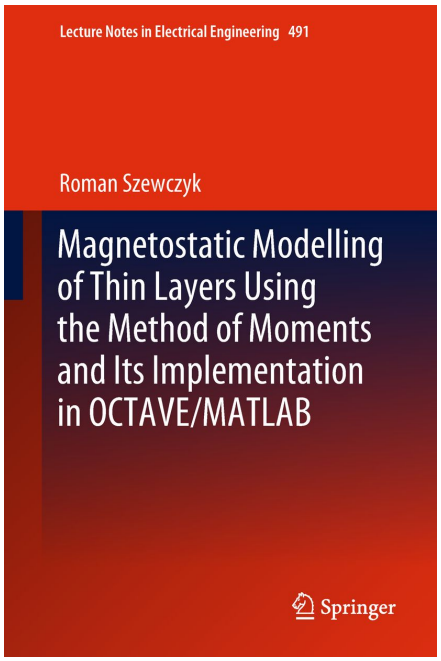

Springer

1st edition

1st ed. 2018, VIII, 108 p. 67 illus., 59 illus. in color.

Printed book
Hardcover

Printed book
Hardcover
ISBN 978-3-319-77984-3
$ 149,99
Available

Discount group
Professional Books (2)

Product category
Monograph

Series
Lecture Notes in Electrical Engineering

Other renditions
Softcover
ISBN 978-3-319-77986-7

Engineering : Electronics and Microelectronics, Instrumentation

Szewczyk, Roman

Magnetostatic Modelling of Thin Layers Using the Method of Moments And Its Implementation in OCTAVE /MATLAB

- Discusses both theoretical analysis and practical implementations
- Addresses the problem of the magnetostatic modelling of thin layers on the basis of the method of moment
- Presents implementations in MATLAB/Octave

This book presents an efficient and robust method of modelling the magnetostatic properties of different technical elements, especially thin layers for magnetic sensors. The solutions presented utilise the principles of the method of moments. However, the principles have been developed both from the point of view of physical analyses as well as from the point of view of numerical optimisation. To enable cost-efficient use of the solutions for commercial applications in industry, the proposed method was implemented as a code optimised for use in the open-source OCTAVE environment. The scripts can be also used with MATLAB software, which is more user friendly, especially for less experienced users.

ISBN 978-3-319-77984-3 / BIC: TJF / SPRINGER NATURE: SCT24027