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## Antenna And Em Modeling With

For students and professionals in the field of antenna design, Antenna and EM Modeling with Matlab: Strikes an important balance between text and programming

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Matlab manual; Provides numerous examples on how to calculate important antenna/target parameters; Provides means for modifying existing codes for various individual projects

### **Antenna and EM Modeling with MATLAB: Makarov, Sergey N ...**

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## Antenna And Em Modeling With

Sergey Makarov. ISBN:  
978-0-471-21876-0 July  
2002 288 Pages.  
Hardcover \$169.00.

Description. An accessible and practical tool for effective antenna design. Due to the rapid development of wireless communications, the modeling of radiation and scattering is becoming more important in the design of antennas.

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Due to the rapid development of wireless communications, the modeling of radiation and scattering is becoming more important in the design of antennas.

Consequently, it is increasingly important for antenna designers and students of antenna design to have a comprehensive

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simulation tool. After providing the basic background in electromagnetic theory necessary to utilize the software, the author describes the benefits and many practical uses of the Matlab ...

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professionals in the field of antenna design, "Antenna and EM Modeling with Matlab" strikes an important balance between text and programming manual. It provides numerous examples on how to calculate important antenna/target parameters. It provides means for modifying existing codes for various individual projects.

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## **Antenna and EM modeling with Matlab in SearchWorks catalog**

Antenna and  
Electromagnetic  
Modeling Software By  
Steve Stearns, K6OIK  
Originally developed at  
Lawrence Livermore  
National Laboratory  
(LLNL) in the 1970s,  
the program Numerical  
Electromagnetics Code  
or NEC is publicly

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available for general use and is available for personal computers running Windows, Linux, and macOS.

### **Antenna and Electromagnetic Modeling Software**

Computational electromagnetics, computational electrodynamics or electromagnetic modeling is the process of modeling the interaction of

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electromagnetic fields with physical objects and the environment. It typically involves using computer programs to compute approximate solutions to Maxwell's equations to calculate antenna performance, electromagnetic compatibility, radar cross section and electromagnetic wave propagation when not in free space. A large subfield is antenna modeling computer

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## **Computational electromagnetics - Wikipedia**

Computer Antenna  
Modeling Simplified -  
KE5KJD An exposure to  
the benefits of  
computer modeling  
using software.

Compiled from the  
Internet for the AARA  
Ham Radio Club - 2010  
Archie asked me a few  
months ago if I would  
be interested in

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presenting some information to the club about antenna modeling. Not being an expert in the

### **Computer Antenna Modeling Simplified - KE5KJD**

Antenna and EM  
Modeling with MATLAB.  
Written for students  
and professionals in  
the field of antenna  
design, this book  
demonstrates how to  
use MATLAB to solve

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basic

radiation/scattering

antenna problems in structures that range from simple dipoles to patch antennas and patch antenna arrays. Specialized antenna types like fractal antennas and frequency selective surfaces are considered as well.

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Antenna Modeling  
EZNEC tutorial by Greg  
Ordy, W8WWV for  
intermediate users;  
Comprehensive  
website of LB Cebik,  
W4RNL (Silent Key) -  
requires signup to  
access (previously free  
but recently converted  
to a subscription  
services with the  
antennex.com online  
magazine), hundreds  
of useful tutorials,  
models, and antenna  
design notes; Steve

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Stearns, K6OIK, has published "Antenna

Modeling for the ...

## **Antenna Modeling for Beginners - ARRL**

Antenna modeling, especially in Amateur Radio. Widely used as the basis for many GUI-based programs on many platforms (including popular distributions such as 4nec2 and EZnec on Windows, xnec2c on Linux, and cocoaNEC

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## Antenna And Em Modeling With Matlab

for Mac OS X).

### **Comparison of EM simulation software - Wikipedia**

It is a good book.  
Covers most types of  
antennas and arrays.  
The book deals with  
the method of moment  
(MoM) for EM  
modeling. Most  
formulas used are  
referenced to usefull  
articles and books. It is  
a good idea to have  
the ref [1] in chapter 2,

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@inproceedings{Makar  
ov2002AntennaAE,  
title={Antenna and Em  
Modeling with  
MATLAB}, author={S.  
Makarov},  
year={2002} }

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## **[PDF] Antenna and Em Modeling with MATLAB | Semantic Scholar**

Use the mesh function to create and show a mesh structure of the helix antenna. mesh is used to discretize antenna surface. In this process, the electromagnetic solver can process the geometry and material of the antenna. The shape of the basis or

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the discretizing  
element for subdividing  
the antenna surface is  
a triangle.

### **Antenna Modeling and Analysis - MATLAB & Simulink**

Abstract: We propose a  
three-dimensional (3D)  
polarized MIMO  
channel model, which  
takes into account 3D  
power angular  
spectrum and  
comprehensive  
propagation

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characteristics of  
electromagnetic waves  
excited by polarized  
antennas. Based on the  
model, we derive a  
close form expression  
of the spatial  
correlation as a  
function of the physical  
parameters  
representing both  
characteristics of ...

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