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Prof Balanis is a master in Antenna Theory. I have read previous editions and was delighted with this book. The book is not for novices. A mastery of Maxwells equations is necessary to appreciate this book, fully. The Author develops the subject from fundamentals. Each chapter is very well organized and can be read, independently.

[Antenna Theory Analysis and Design, 3rd Edition by Balanis](#)

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Isotropic. An isotropic antenna (isotropic radiator) is a hypothetical antenna that radiates equal signal power in all directions. It is a mathematical model that is used as the base of comparison to calculate the directionality or gain of real antennas. No real antenna can produce a truly isotropic radiation pattern, but the isotropic radiation pattern serves as a "worst case" reference for ...

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pattern(__,Name,Value) uses additional options specified by one or more Name, Value pair arguments. You can use any of the input arguments from previous syntaxes. Use the 'ElementNumber' and 'Termination' property to calculate the embedded pattern of the antenna element in an array connected to a voltage source.

[Monopole Antenna - an overview | ScienceDirect Topics](#)

Some theory. The power provided by the transmitter is radiated by the antenna. As the waves leave the antenna, they spread on the surface of spheres of increasing radius as they travel away. In a very similar way, when dropping a stone in a pond, circular ripples leave the point of impact and become larger and larger in diameter as they travel ...

[Near and far field - Wikipedia](#)

Check out Chapter 5 in Constantine Balanis's "Antenna Theory and Design." It has the complete treatment of the fields generated by a small loop antenna. KW4TI , Dec 6, 2020

[Antek-Antek SkadalarSka Lego's Family | Antennas to ...](#)

Antenna Theory: Analysis and Design Constantine A. Balanis. 4.8 out of 5 stars 43. Hardcover. CDN\$193.00. Only 2 left in stock (more on the way). ... Chapter 2 is a programmable logic primer that brings the reader from an understanding of simple logic gates and discrete devices to an appreciation for the capabilities of PALS, simple PLDs, CPLDs ...

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