

IEEE Standard for Definitions of Terms for Antennas

IEEE Antennas and Propagation Society

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IEEE Std 145™-2013
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Abstract: Definitions for antennas and for systems that incorporate an antenna as a component of the system are established in this standard.

Keywords: antennas, definitions, IEEE 145™, terms

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Everett Farr
Lars Foged
Michael Francis
Robert Hansen

Randy Haupt
Albert Lysko
Jeffrey Nanzer
Ross Stone

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David Thiel
Jeff Way
Karl Warnick

The following members of the individual balloting committee voted on this standard. Balloters may have voted for approval, disapproval, or abstention.

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Patrick Diamond
Alistair Duffy
Michael Francis
Avraham Freedman
David Gregson
Randall Groves
Michael Gundlach
Edward Hare
Werner Hoelzl
Daniel Hoolihan
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Sergiu Iordanescu
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Efthymios Karabetos

Stuart Kerry
Thomas Kurihara
Arthur H. Light
Greg Luri
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Roger Marks
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Maximilian Riegel
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Sanda Safier
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Michael Kipness
IEEE Standards Program Manager, Technical Program Development

Introduction

This introduction is not part of IEEE Std 145™-2013, IEEE Standard for Definitions of Terms for Antennas.

This document is an updated release of standardized definitions for terms commonly used in the field of antennas. It is anticipated that future revisions to this standard will include additional terms, particularly in the field of active signal-processing antennas

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1. Overview

1.1 Scope

This standard establishes definitions for antennas and for systems that incorporate an antenna as a component of the system.

1.2 Purpose

Many individuals and organizations are involved in the design, manufacture, measurement and use of antennas for many different applications. This standard is intended to provide a set of standard definitions for the community so that when terminology is used all will understand its meaning.

1.3 Background

For the most part, the definitions of terms contained herein stand alone and are easily understood out of context: However, the terms pertaining to gain, directivity, and polarization are interrelated, and hence require some elaboration.