

The Biosphere Vocabulary Study Guide

Term	Definition
Ecology	Scientific study of interactions among organisms and between organisms and their environment (63)
Biosphere	Part of Earth in which life exists including land, water, and air or atmosphere (21, 64)
Population	Group of individuals of the same species that live in the same area (64)
Community	Assemblage of different populations that live together in a defined area (64)
Ecosystem	All the organisms that live in a place, together with their nonliving environment (65)
Biome	A group of ecosystems that share similar climates and typical organisms (65)
Biotic Factor	Any living part of the environment with which an organism might interact (66)
Abiotic Factor	Physical, or nonliving, factor that shapes an ecosystem (66)
Autotroph (Producer)	Organism that is able to capture energy from sunlight or chemicals and use it to produce its own food from inorganic compounds; also called a producer (69)

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development of a wideband hexagonal siw cavity backed slot antenna - Aug 20 2023

sep 1 2021 in this paper a novel wideband hexagonal cavity backed slot antenna array waveguide siw is proposed first a

single element low profile wideband linearly polarized cavity backed antenna using two slots is designed and analyzed the antenna bandwidth is increased by nrws which makes both hybrid modes of tm input impedance keywords

a high performance siw slot antenna array for mmwave radar - May 17 2023

jul 24 2023 the feed network of the antenna is composed of an air filled rectangular waveguide rwg to substrate integrated waveguide siw transition and a power division feed network finally the array element and the feed network are combined to form an 8 times 16 slot array the overall simulation design is carried out in hfss