Guyed Wires: Club Support Recognition, 2017-2023

Recipients	
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Structures that support antennas are frequently of a lattice construction and are called "towers". One end of the guy is attached to the structure, and the other is anchored to the ground at some distance from the mast or tower base. The tension in the diagonal guywire, combined with the compression and buckling strength of the structure, allows the structure to withstand lateral loads such as wind or the weight of cantilevered structures. They are installed radially, usually at equal angles about the structure, in trios and quads. As the tower leans a bit due to the wind force, the increased guy tension is resolved into a compression force in the tower or mast and a lateral force that resists the wind load. For example, antenna masts are often held up by three guy-wires at 120° angles. Structures with predictable lateral loads, such as electrical utility poles, may require only a single guy-wire to offset the lateral pull of the electrical wires, at a spot where the wires change direction. Conductive guy cables for radio antenna masts may disturb the radiation pattern of the antenna, so their electrical characteristics must be included in the design.

Historically, guyed structures have been some of the tallest man-made structures in the world. There are also many structures which consist of a free standing bottom and a guyed top. The Warsaw radio tower was erected in 1974. At a height of 646.38 m (2,121 ft), it became the tallest structure in the world. It collapsed in 1991. Gqbin-Konstantyn6w, Masovian Voivodeship