

Chapter 10: Short wave wire antennas

Introduction

At present, Radio Amateur transmitting is one of the most popular sports in many countries. Around the world, about 5 million people are interested in radio amateur transmitting. DXing belongs to the most popular part of this hobby (connecting people from other countries).

People use ionosphere propagation in bands 160 m (1.8 MHz), 80 m (3.5 MHz), 40 m (7 MHz), 30 m (10 MHz), 20 m (14 MHz), 17 m (18 MHz), 15 m (21 MHz), 12 m (24 MHz) and 10 m (28 MHz).

The antenna is one of most important part of the technical equipment. The antenna must be of a mono-band or multi-band design, the radiation must be omni-directional or directional in the horizontal plane.

The text presents most popular short wave antennas. The antennas were designed in the freeware 4NEC program.