
Chapter
17.1
Television Reception Principles

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17.1.1 Introduction

Television receivers provide black-and-white or color reproduction of pictures and the accompanying monaural or stereophonic sound from signals broadcast through the air or via cable distribution systems. The broadcast channels in the U.S. are 6 MHz wide for transmission on conventional 525-line standards.

17.1.2 Basic Operating Principles

The minimum signal level at which television receivers provide usable pictures and sound, called the *sensitivity level*, generally is on the order of 10 to 20 μV . The maximum level encountered in locations near transmitters may be as high as several hundred millivolts. The FCC has set up two standard signal level classifications, Grades A and B, for the purpose of licensing television stations and allocating coverage areas. Grade A is to be used in urban areas relatively near the transmitting tower, and Grade B use ranges from suburban to rural and fringe areas a number of miles from the transmitting antenna. The FCC values are expressed in microvolts per meter ($\mu\text{V}/\text{m}$), where meter is the signal wavelength [1].

The standard transmitter field-strength values for the outer edges of these services for Channels 2 through 69 are listed in Table 17.1.1. Included for reference in the table are the signal levels for what may be considered "city grade" in order to give an indication of the wide range in signal level that a receiver may be required to handle. The actual antenna terminal voltage into a matched receiver load, listed in the second column, is calculated from the following equation:

$$e = E \frac{96.68}{\sqrt{f_1 f_2}} \quad (17.1.1)$$

Principles Of Television Reception

Arvind M. Dhake



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Principles of Television Reception William Wharton,Douglas Howorth,1967 *Principles of Television Reception* Wharton,Howorth,1981-01-01 **The Principles of Television Reception** Arthur W. Keen,1951 The Principles of Television Reception Arthur William Keen,1949 **The Principles of Television Reception ...** A. W. Keen,1951

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