

Abstracts

Digital Satellite Communications - Systems, Components, and Limitations

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Digital satellite communications is conducted in a bandwidth and power limited system of noise contributors, filters, nonlinear amplifiers, and adjacent channel interference. This paper will discuss the overall system architecture, identifying all types of filters, amplifiers, and modulation techniques in a system involving a transmitting earth terminal and up-link, a satellite transponder, and a down-link and receiving earth terminal which includes the receivers. The parameters relating to overall link performance will be discussed for a wide variety of modulation techniques and for various bandwidth efficiencies.

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