

SYMPOSIUM ON INTEGRATED APPLICATIONS (B5)  
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SEVERAL IMPLEMENT MODES ANALYSIS ABOUT DISTANCE EDUCATION BASED ON  
SATELLITE

**Abstract**

Distance education offers a new education mode for people in different areas by using advanced multi-media and transmission techniques. The phase classification theory of distance education based on different transmission methods has been developed in the world. The satellite transmission, considered as one of the major transmission methods in distance education, has the characteristics of large coverage and low terminal cost, and occupies an important role in distance education. Distance education based on satellite contains two transmission ways, including one-way broadcasting and two-way communication. In this paper, on the basis of the two transmission ways, several implement modes of distance education based on satellite application have been researched, such as TV broadcasting, data broadcasting, IP datacasting, PushVOD and two-way network distance education based on VSAT communication. All of them except VSAT communication are one-way broadcasting mode. Firstly, the system composition and functions of each mode were introduced. Secondly, the characteristics and applications of each mode were summarized. At last each implement mode has been compared in the aspects of construction cost, terminal cost, resource format restriction, real-time degree and so on, and then the application and popularization suggestions for the five implement modes of satellite distance education were given.