Abstracts

Packet Communication Ultra-Small Aperture Terminal System for the Hokkaido Integrated Telecommunication Network

T. Hatsuda. "Packet Communication Ultra-Small Aperture Terminal System for the Hokkaido Integrated Telecommunication Network." 1995 Transactions on Microwave Theory and Techniques 43.7 (Jul. 1995, Part II [T-MTT] (Special Issue on Emerging Commercial and Consumer Circuits, Systems, and Their Applications)): 1692-1698.

Three aspects of a new minimum cost, high reliability system strategy for the Hokkaido Integrated Telecommunication (HIT) network, in which real time operation is not demanded, examined. These are: 1) a packet communication ultra-small aperture terminal (PC-USAT) system, which contains a method overcoming the satellite links rain attenuation discontinuities; an optimum rain margin technique and the 14/12-GHz band rain, snow attenuation, and site diversity (SD) experiments; and a low-bit-rate medical information and still-picture simultaneous transmission system.

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