DESIGNING OF A LINK-BUDGET INTERFACE FOR VSAT SYSTEM USING MATLAB

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ABSTRACT

Link-budget analysis could be such a time consuming task. Especially when involve more than one microwave link with a different set of link parameters. Even a simple Link-budget calculation for both uplink and downlink which equations consider only the ideal gains, losses and the effect of thermal noise may consist of more than ten formulas for all the engaged parameters. Link-budget program can make a link-budget analysis so simple. For example a link-budget analysis at a VSAT station. One VSAT station could have hundred of VSAT terminals connected to the station. Design a link-budget interface program using MATLAB. MATLAB has better interface outlook and colors. Link-budget interface will expedite the process, high precision and less error.

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