

ABSTRACT

TOOL AND METHOD FOR PLANNING AND/OR DIMENSIONING 5 SATELLITE TELECOMMUNICATIONS THROUGH A QUALITY INDICATOR

Method for planning and/or dimensioning links between several stations in a wireless telecommunication system including the following steps:

- 10 a) establishing a relation, in logarithmic scale, for each existing link between the ground equivalent radiated power, $EIRP_{ground}$, the signal to noise density ratio required $(C/No)_{req}$ for a link, and a quality indicator QaF ,
- b) determining the quality indicator QaF from the contribution of the first
15 type items (link analysis disturbance) that are linear in $EIRP_{ground}$ and the second type items that are non-linear in $EIRP_{ground}$,
- c) determining the $EIRP_{ground}$ from the quality indicator QaF determined in step b).

20 Figure 4 to be published