

Title (en)
E SA

Title (de)
VERFAHREN ZUR BESTIMMUNG VON AMPLITUDEN UND PHASEN VON VERSCHIEDENEN WEGEN EINER SENDEGRUPPENANTENNE FÜR ELEKTROMAGNETISCHE SIGNALE UND ANTENNE GEMÄSS DIESEM VERFAHREN SOWIE SIGNALE FÜR EINEN TELEKOMMUNIKATIONSSATELLITEN

Title (fr)
PROCEDE POUR LA DETERMINATION DES AMPLITUDES ET PHASES DES DIFFERENTES VOIES D'UN RESEAU D'EMISSION DE SIGNAUX ELECTROMAGNETIQUES, TEL QU'UNE ANTENNE DE SATELLITE DE TELECOMMUNICATION

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Application
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Priority
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• FR 9807021 A 19980604

Abstract (en)
[origin: FR2779578A1] The invention concerns a method for determining amplitudes and phases of the different channels in an electromagnetic signal transmission network whereof the sources are arranged in a triangular lattice. Said method is characterised in that consists in tiling said lattice with hexagons having six equal sides, the hexagonal tiles formed being distributed on said lattice such that two successive tiles along a direction in the lattice rectangular height equivalent to said triangular lattice are offset by an elementary step along the width direction, and in performing a Fourier transform on the resulting tiling; in selecting on the resulting new lattice the directions corresponding to the transmission directions; in performing an inverse Fourier transform of said directions and in deducing from said inverse Fourier transform the amplitude and phase coefficients to be applied to the transmission network different channels.

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