"ACAMPORA, A. S.

A Shared Resource TDMA Approach to Increase the Rain Margin of 12/14-Ghz Satellite Systems. - [SATELLITE CRYPTOGRAPHY]

Référence : 43607

(New York, American Telephone and Telegraph Company, 1979). 8vo. Bound in contemporary full green cloth. Volume 58, Number 9, Part 2, and Numbers 9-10, November 1979 of ""The Bell System Technical Journal"". Library stamp to pasted down front free end-paper and title-page. Occasional pencil marks throughout. A nice and clean copy. Pp. 2097-2111. [Entire volume: Pp. 1369-2326].

Commentaire : First printing of this seminal paper within satellite cryptography. ""Perhaps the most significant research result involving the role of coding in satellite communications is the resource-sharing concept proposed by Acampora [the present paper]. As already mentioned, rain attenuation seriously impairs communications satellites operating at frequencies above 10 Ghz. Rather than using larger antennas or site diversity to minimize communication outage, a common pool of resources, shared among all ground stations, is much more efficient."" (Millman, A History of Engineering & Science in the Bell System, 1984, p. 231)

Année 1979

Prix : **1 250,00 DKK**

Cet article vous est proposé par :

Herman H. J. Lynge & Son
herman@lynge.com
Tél. +45 33 155 335
Silkegade 11
1113 Copenhagen
Danemark

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