Direct to Cell · 3GPP NTN

Understanding NTN Satellite Communications Through STARLINK

SPACEX and **STARLINK**, 3GPP NTN, and Trends in Satellite Communications



Kihong Kim

Understanding NTN Satellite Communications Through STARLINK

by **kihong Kim**

BOOK DESCRIPTION

How does a smartphone send a text directly to a satellite when it’s outside cellular coverage?

Kihong Kim draws on 25 years in mobile communications at KT, AT&T, and Samsung Electronics America. At Samsung Electronics America, he worked on Galaxy device interoperability with T-Mobile and Starlink and took part in the U.S. commercial rollout of Direct to Cell.

Using diagrams and worked examples, he explains the differences between dedicated-terminal satellite internet, LTE Direct to Cell, 3GPP 5G NR NTN, and satellite backhaul. The book shows how 3GPP specifications address signal delay and Doppler shift. The appendices include sample technical interview answers, 32 practice questions with solutions, and field-testing worksheets.

This edition uses AI-generated translation and illustrations, with editorial review.

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