



Optimized Arbitrary Wireless Device Arrays for Emergency Response Communications (Classic Reprint) (Paperback)

By William F Young

Forgotten Books, 2017. Paperback. Condition: New. Language: English . Brand New Book ***** Print on Demand *****. Excerpt from Optimized Arbitrary Wireless Device Arrays for Emergency Response Communications Wireless communications are essential to emergency responders. Unfortunately, a typical emergency response scenario involves communication into and within building structures, which can severely interfere with or completely block the radio-frequency channel. Several methods offer some potential relief to these problems, including the use of multi-hop ad hoc networks for communication within the building, and the use of smart antenna arrays at exterior locations to improve the communication between the interior and exterior locations of the building. However, due to the enclosed nature of buildings, and the loss in radio-frequency energy as a signal propagates through doors and walls, no single solution completely solves the communication problem. In this report, we consider another approach to improving the communication capabilities of emergency responders. We investigate the possibility of creating antenna arrays from wireless devices such as the emergency responders radios, wireless sensor networks, or arbitrarily placed wireless relay nodes. An antenna array allows the focusing or directing of radiated electromagnetic energy in a desired direction. By intelligently controlling the direction and energy level of...



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