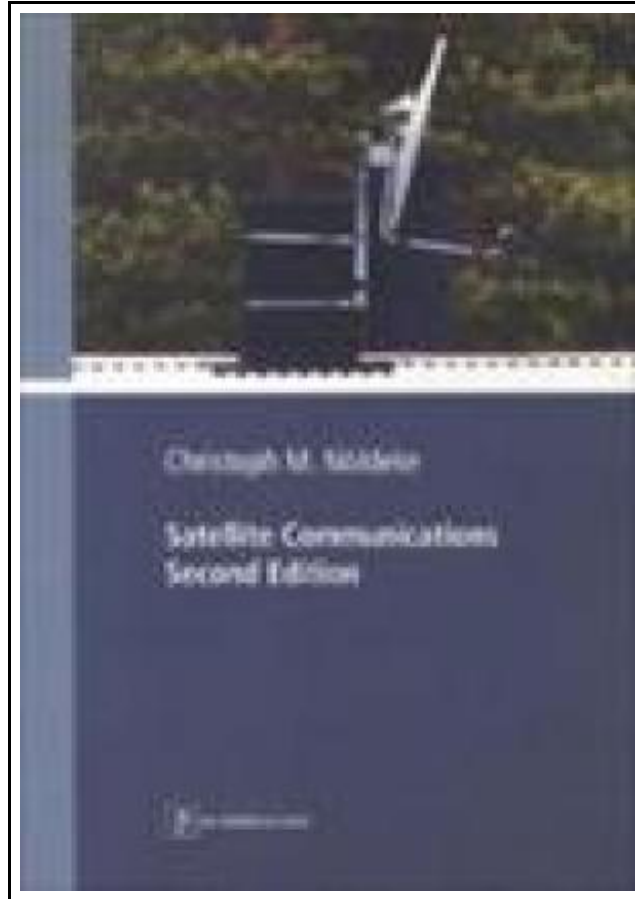


Satellite Communications



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Monsenstein Und Vannerdat Jan 2013, 2013. Taschenbuch. Book Condition: Neu. 241x172x20 mm. Neuware - Since half a century, geostationary satellites have been playing an ever increasing role in global communications. While early pioneers focused on the use of spacecraft as means for combat or imagined manned space flight, the idea to communicate over geostationary satellites was first expressed by the British writer Arthur C. Clarke, who later became famous for his novel '2001, A Space Odyssey'. Shortly after the end of World War II, in October 1945, he asked the following question: 'Extra-terrestrial relays - can rocket stations give worldwide radio coverage ' Clarke was impressed by the rocket technology developed by the German military and imagined possible orbits around the earth. His analysis was to the point: 'It will be observed that one orbit, with a radius of 42,000 km, has a period of exactly 24 hours. A body in such an orbit, if its plane coincided with that of the earth's equator, would revolve with the earth and would thus be stationary above the same spot on the planet. It would remain fixed in the sky of a whole hemisphere and unlike all other heavenly bodies would neither rise nor set.' He imagined further how space stations could be assembled and equipped: 'Using material ferried up by rockets, it would be possible to construct a 'space-station' in such an orbit. . It could be provided with receiving and transmitting equipment .and could act as a repeater to relay transmissions between any two points on the hemisphere beneath, using any frequency which will penetrate the ionosphere. If directive arrays were used, the power requirements would be very small, as direct line of sight transmission would be used.' Strikingly enough in 1945, he already provided very precise recommendations for...



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