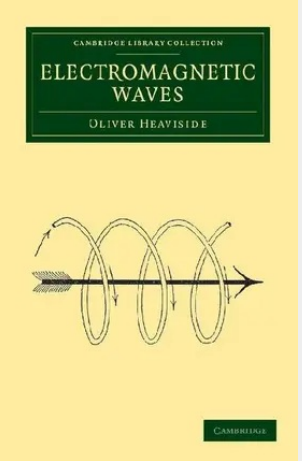
Heaviside

Electromagnetic Waves

Oliver Heaviside (1850-1925), the self-taught physicist and electrical engineer, began his career as an operator on the newly laid Anglo-Danish telegraph cable in 1868. The most advanced electrical technology of the time, the cable system inspired several of his early mathematical papers. This monograph, first published as a paper in the Philosophical Magazine in 1888, then as a book in 1889, draws on his established work on telegraphic propagation and self-inductance, and on Maxwell's field theory. In a fascinating insight into the contemporary scientific community, he complains that these subjects are still often misunderstood, and explains his formulae afresh from several angles. Also covered - and frequently questioned - are contemporary theories of permittivity, the speed of electromagnetic waves, and the dielectric properties of conductors. Heaviside's Electrical Papers (2 volumes, 1892) and his Electromagnetic Theory (3 volumes, 1893-1912) have also been reissued in this series.

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40,40 €
40,40 € (zzgl. MwSt.)

Lieferfrist: bis zu 10 Tage

Artikelnummer: 9781108041591
Medium: Buch
ISBN: 978-1-108-04159-1
Verlag: Cambridge University Press
Erscheinungstermin: 30.11.2011
Sprache(n): Englisch
Auflage: Erscheinungsjahr 2011
Serie: Cambridge Library Collection - Technology
Produktform: Kartoniert
Gewicht: 199 g
Seiten: 150
Format (B x H): 140 x 216 mm

Kundenservice Verlag Dr. Otto Schmidt KG
Neumannstraße 10, 40235 Düsseldorf | kundenservice@otto-schmidt.de | 0221-93738-997 (Inland)