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Magnetism: An Introductory Survey (Paperback)

By E.W. Lee

Dover Publications Inc., United States, 2011. Paperback. Book Condition: New. New edition. 215 x 137 mm. Language: English . Brand New Book. Mention the word magnetism to one man and he thinks of a bar and iron filings; to another the word may suggest a dynamo; while a third may think of a cyclotron and the splitting of the atom. The difference would seem to depend in large part on how much one knows about this remarkable phenomenon. In this unique work, the entire subject of magnetism is presented from the earliest wondering comments on it to its meaning in space exploration. The lodestone was known to ancient Greeks; the Chinese knew of the compass a thousand years ago; in the 16th century Gilbert described magnetic poles. Professor Lee takes us through the early experiments to the first modern accomplishments of Oersted, Ampere, and Faraday, which established the link between magnetism and electricity. We then learn of the principles behind electric motors, dynamos, transformers, permanent magnets, synchrotrons, solenoids, memory banks in computers, betatrons, magnetic supercooling, and other modern applications. It makes engrossing reading. In developing the scientific story, the author shows us how magnetism works, with reference to such concepts...



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