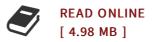




Complex Conjugate

By Frederic P. Miller

Alphascript Publishing Dez 2009, 2009. Taschenbuch. Book Condition: Neu. 220x150x8 mm. Neuware - In mathematics. complex conjugates are a pair of complex numbers, both having the same real part, but with imaginary parts of opposite signs.[1][2] For example, 3 + 4i and 3 - 4i are complex conjugates. The conjugate of the complex number z z=a+ib, where a and b are real numbers, is overline = a - ib., An alternate notation for the complex conjugate is z . However, the bar z notation avoids confusion with the notation for the conjugate transpose of a matrix, which can be thought of as a generalization of complex conjugation. If a complex number is represented as a 2×2 matrix, the notations are identical. For example, overline{(3-2i)} = 3 + 2i overline=7 overline = -i. Complex numbers are often depicted as points in a plane, which is a variation of the Cartesian coordinate system (see diagram). The x-axis contains the real numbers and the y-axis contains the multiples of i. In this view, complex conjugation corresponds to reflection at the x-axis. In polar form, the conjugate of rei is re i . Euler's formula confirms this. 128 pp. Englisch.



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