



Unitary group

By Lambert M. Surhone

Betascript Publishers Dez 2009, 2009. Taschenbuch. Book Condition: Neu. 220x150x6 mm. Neuware - Please note that the content of this book primarily consists of articles available from Wikipedia or other free sources online. In mathematics, the unitary group of degree n , denoted $U(n)$, is the group of $n \times n$ unitary matrices, with the group operation that of matrix multiplication. The unitary group is a subgroup of the general linear group $GL(n, \mathbb{C})$. In the simple case $n = 1$, the group $U(1)$ corresponds to the circle group, consisting of all complex numbers with absolute value 1 under multiplication. All the unitary groups contain copies of this group. The unitary group $U(n)$ is a real Lie group of dimension n^2 . The Lie algebra of $U(n)$ consists of complex $n \times n$ skew-Hermitian matrices, with the Lie bracket given by the commutator. 108 pp. Englisch.



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