

**W. S. GILBERT**

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W. S. Gilbert by Edith A. Browne

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**EDITH A. BROWNE**

**W. S. GILBERT**





*W.S. Gilbert*

Edith A. Browne

the  $\mathbb{R}^n$  is a linear space over  $\mathbb{R}$  with the usual addition and scalar multiplication. The inner product is defined by

$$\langle x, y \rangle = x_1 y_1 + \dots + x_n y_n \quad (1)$$

and the norm is defined by  $\|x\| = \sqrt{\langle x, x \rangle}$ . The inner product and the norm are both invariant under orthogonal transformations.

Let  $T$  be a linear transformation on  $\mathbb{R}^n$ . The matrix of  $T$  with respect to the standard basis is denoted by  $A$ . The matrix of  $T$  with respect to an orthonormal basis is denoted by  $Q$ .

Let  $x$  and  $y$  be vectors in  $\mathbb{R}^n$ . The inner product of  $x$  and  $y$  is denoted by  $\langle x, y \rangle$ . The norm of  $x$  is denoted by  $\|x\|$ .

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EDITED BY J. T. GREIN

W. S. GILBERT

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