闽数空间

無限 次元の 線形空间

付急の複素関数を繋ぎる 集合 U f,g f U u=f+g f U

べつみんの値

$$\vec{a} = (a_1, ..., a_n) \in \mathbb{R}^n$$
 海間

$$(u,v) = \int_{a}^{b} dx \ u(x) \overline{v(x)}$$

正规性

$$\int_{a}^{b} dx \cdot |u(x)|^{2} = 1$$

跟庭

$$\int_{0}^{b} dx \, \Phi_{i}(x) \, \overline{\Phi_{j}(x)} = \delta_{ij} \int_{0}^{b} |f(x) - \sum_{k=1}^{N} f_{k} y_{k}(x)|^{2} = \int_{0}^{b} dx \, |f(x) - \sum_{k=1}^{N} f_{k} y_{k}(x)|^{2} = \int_{0}^{b} dx \, |f(x) - \sum_{k=1}^{N} f_{k} y_{k}(x)|^{2} = \int_{0}^{b} dx \, |f(x) - \sum_{k=1}^{N} f_{k} y_{k}(x)|^{2} = \int_{0}^{b} dx \, |f(x) - \sum_{k=1}^{N} f_{k} y_{k}(x)|^{2} = \int_{0}^{b} dx \, |f(x) - \sum_{k=1}^{N} f_{k} y_{k}(x)|^{2} = \int_{0}^{b} dx \, |f(x) - \sum_{k=1}^{N} f_{k} y_{k}(x)|^{2} = \int_{0}^{b} dx \, |f(x) - \sum_{k=1}^{N} f_{k} y_{k}(x)|^{2} = \int_{0}^{b} dx \, |f(x) - \sum_{k=1}^{N} f_{k} y_{k}(x)|^{2} = \int_{0}^{b} dx \, |f(x) - \sum_{k=1}^{N} f_{k} y_{k}(x)|^{2} = \int_{0}^{b} dx \, |f(x) - \sum_{k=1}^{N} f_{k} y_{k}(x)|^{2} = \int_{0}^{b} dx \, |f(x) - \sum_{k=1}^{N} f_{k} y_{k}(x)|^{2} = \int_{0}^{b} dx \, |f(x) - \sum_{k=1}^{N} f_{k} y_{k}(x)|^{2} = \int_{0}^{b} dx \, |f(x) - \sum_{k=1}^{N} f_{k} y_{k}(x)|^{2} = \int_{0}^{b} dx \, |f(x) - \sum_{k=1}^{N} f_{k} y_{k}(x)|^{2} = \int_{0}^{b} dx \, |f(x) - \sum_{k=1}^{N} f_{k} y_{k}(x)|^{2} = \int_{0}^{b} dx \, |f(x) - \sum_{k=1}^{N} f_{k} y_{k}(x)|^{2} = \int_{0}^{b} dx \, |f(x) - \sum_{k=1}^{N} f_{k} y_{k}(x)|^{2} = \int_{0}^{b} dx \, |f(x) - \sum_{k=1}^{N} f_{k} y_{k}(x)|^{2} = \int_{0}^{b} dx \, |f(x) - \sum_{k=1}^{N} f_{k} y_{k}(x)|^{2} = \int_{0}^{b} dx \, |f(x) - \sum_{k=1}^{N} f_{k} y_{k}(x)|^{2} = \int_{0}^{b} dx \, |f(x) - \sum_{k=1}^{N} f_{k} y_{k}(x)|^{2} = \int_{0}^{b} dx \, |f(x) - \sum_{k=1}^{N} f_{k} y_{k}(x)|^{2} = \int_{0}^{b} dx \, |f(x) - \sum_{k=1}^{N} f_{k} y_{k}(x)|^{2} = \int_{0}^{b} dx \, |f(x) - \sum_{k=1}^{N} f_{k} y_{k}(x)|^{2} = \int_{0}^{b} dx \, |f(x) - \sum_{k=1}^{N} f_{k} y_{k}(x)|^{2} = \int_{0}^{b} dx \, |f(x) - \sum_{k=1}^{N} f_{k} y_{k}(x)|^{2} = \int_{0}^{b} dx \, |f(x) - \sum_{k=1}^{N} f_{k} y_{k}(x)|^{2} = \int_{0}^{b} dx \, |f(x) - \sum_{k=1}^{N} f_{k} y_{k}(x)|^{2} = \int_{0}^{b} dx \, |f(x) - \sum_{k=1}^{N} f_{k} y_{k}(x)|^{2} = \int_{0}^{b} dx \, |f(x) - \sum_{k=1}^{N} f_{k} y_{k}(x)|^{2} = \int_{0}^{b} dx \, |f(x) - \sum_{k=1}^{N} f_{k} y_{k}(x)|^{2} = \int_{0}^{b} dx \, |f(x) - \sum_{k=1}^{N} f_{k} y_{k}(x)|^{2} = \int_{0}^{b} dx \, |f(x) - \sum_{k=1}^{N} f_{k} y_{k}(x)|^{2} = \int_{0}^{b} dx \, |f(x) - \sum_{k=1}^{N} f_{k} y_{k}(x)|^{2} = \int_{0}^{$$



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正规直交南版子。 「中_acc) f

$$f(x) = \sum_{i=1}^{n} f_{ik} \phi_{ik}(x) \quad \text{2001-usign}$$

$$f(x) = \sum_{i=1}^{n} \left(\int_{a}^{b} dx' f(x) \cdot \overline{p}_{R}(x) \right) p_{R}(x)$$
7-以正式展開

$$= \int_{0}^{b} dx' \left(\sum_{n}^{\infty} \varphi_{n}(x) \varphi_{n}(x') \right) f(x')$$

$$\sum_{i}^{N} \varphi_{\mathbf{p}}(\mathbf{x}) \varphi_{\mathbf{p}}(\mathbf{x}') = S(\mathbf{x}' - \mathbf{x})$$

くめれ(x)りか完全である