

Aplicaciones ortogonales (un poco más). Descomposición en valores singulares.

1. Estudia las siguientes aplicaciones ortogonales de \mathbb{R}^3 indicando sus elementos geométricos:

$$f: \begin{cases} x' = \frac{1}{2}x + \frac{\sqrt{3}}{2}y + \frac{1}{2}z \\ y' = \frac{\sqrt{3}}{2}x - \frac{\sqrt{3}}{2}z \\ z' = \frac{1}{2}x - \frac{\sqrt{3}}{2}y + \frac{1}{2}z. \end{cases} \quad g: \begin{cases} x' = z \\ y' = -y \\ z' = -x. \end{cases}$$

Estudia la composición $f \circ g$ (no es necesario indicar sus elementos geométricos).

2. Sea $f: \mathbb{R}^3 \rightarrow \mathbb{R}^3$ la simetría rotatoria de ángulo α con respecto al vector $u = (a, b, c)$ con $\|u\| = 1$.

a) Da una fórmula, similar a la que vimos en clase para las rotaciones, para la matriz de f con respecto a la base estándar de \mathbb{R}^3 . (Recuerda que en clase usamos la proyección ortogonal sobre $\langle u \rangle$ y la aplicación $V_u(v) = u \times v$).

b) Escribe la matriz en la base estándar de la simetría rotatoria de ángulo $\pi/2$ en la dirección de vector $(1, 1, 1)$.

3. Denota por S_L la simetría ortogonal en \mathbb{R}^3 con respecto a la recta L generada por el vector (a, b, c) y por S_W la reflexión en \mathbb{R}^3 con respecto al plano $W = L^\perp$. Demuestra que $S_W = -S_L$ y la matriz de S_L con respecto a la base canónica de \mathbb{R}^3 es:

$$\frac{1}{a^2 + b^2 + c^2} \begin{pmatrix} a^2 - b^2 - c^2 & 2ab & 2ac \\ 2ab & -a^2 + b^2 - c^2 & 2bc \\ 2ac & 2bc & -a^2 - b^2 + c^2 \end{pmatrix}.$$

4. Sea $A \in Mat_{m \times n}(\mathbb{R})$ una matriz y sea $A = U\Sigma V^t$ su descomposición en valores singulares con U y V matrices ortogonales (de los tamaños adecuados) y

$$\Sigma = \left(\begin{array}{ccc|ccc} \sigma_1 & & & & & \\ & \ddots & & & & \\ & & \sigma_r & & & \\ \hline & & & \mathbf{0}_{(m-r) \times (n-r)} & & \\ \mathbf{0}_{(m-r) \times r} & & & & \mathbf{0}_{(m-r) \times (n-r)} & \end{array} \right), \quad \sigma_i \in \mathbb{R}, \quad \sigma_1 \geq \sigma_2 \geq \dots \geq \sigma_r > 0.$$

Sean u_1, \dots, u_m las columnas de U y v_1, \dots, v_n las columnas de V , es decir, $U = [u_1, \dots, u_m], V = [v_1, \dots, v_n]$.

a) Demuestra que v_1, \dots, v_n son autovectores de $A^t A$ y encuentra los correspondientes autovalores. Demuestra que u_1, \dots, u_m son autovectores de $A A^t$ y encuentra los correspondientes autovalores.

b) Demuestra que $A v_i = 0 \iff i > r$. (Sugerencia: ¿cuánto vale $\|A v_i\|$?)

c) Demuestra que $A v_1, \dots, A v_r$ son linealmente independientes y concluye que $r = \text{rango}(A)$. (Esto nos da una demostración de esta igualdad diferente de la vista en clase).

5. Encuentra la descomposición en valores singulares de las matrices:

$$a) \begin{pmatrix} 1 & 0 & 1 \\ 0 & 0.5 & 0 \end{pmatrix} \quad b) \begin{pmatrix} -4 & 0 \\ 0 & 0 \end{pmatrix} \quad c) \begin{pmatrix} 2 & 3 \\ 0 & 2 \end{pmatrix} \quad d) \begin{pmatrix} 1 & 0 \\ 1 & -1 \\ -1 & 1 \end{pmatrix} \quad e) \begin{pmatrix} -1 \\ 2 \\ 2 \end{pmatrix}$$

6. Encuentra la mejor solución por mínimos cuadrados de los sistemas:

$$a) \left. \begin{cases} x & = 2 \\ -y & = 0 \\ -x + y & = 1 \end{cases} \right\} \quad b) \begin{pmatrix} 1 & 1 & 0 \\ -1 & 1 & 0 \\ 0 & 0 & 0 \end{pmatrix} \begin{pmatrix} x \\ y \\ z \end{pmatrix} = \begin{pmatrix} 1 \\ 1 \\ 1 \end{pmatrix} \quad c) \left. \begin{cases} x + 4y & = 1 \\ 2x + 8y & = -1 \end{cases} \right\}$$

Problemas De Algebra Lineal Y Geometr Ia 1

Jicheng Xie



Problemas De Algebra Lineal Y Geometr Ia 1:

This book delves into Problemas De Algebra Lineal Y Geometr Ia 1. Problemas De Algebra Lineal Y Geometr Ia 1 is an essential topic that needs to be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Problemas De Algebra Lineal Y Geometr Ia 1, encompassing both the fundamentals and more intricate discussions.

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 - Chapter 1: Introduction to Problemas De Algebra Lineal Y Geometr Ia 1
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 - Chapter 3: Problemas De Algebra Lineal Y Geometr Ia 1 in Everyday Life
 - Chapter 4: Problemas De Algebra Lineal Y Geometr Ia 1 in Specific Contexts
 - Chapter 5: Conclusion
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