

BIBLIOGRAPHY.

ENGLISH.

- i. **G. Williams**, *Linear algebra with applications*. Jones&Bartlett Learning, 2019
- ii. **D.G. Lay and S. R. Lay**, *Linear Algebra and its Applications* Pearson,
- iii. **T. S. Blyth, E. F. Robertson.**, *Basic Linear Algebra*. Springer, 2022.
- iv. **T. S. Blyth, E. F. Robertson.**, *Further Linear Algebra*. Springer, 2022.
- v. **S. Ghahramani**, *Fundamentals of probability with stochastic processes*. 3rd Edition. CRC Press, 2016.
- vi. **J. Hefferon**, *Linear Algebra*. 4th Edition. Freely available at <https://joshua.smcvt.edu/linearalgebra/>

SPANISH.

1. **J. de Burgos**, *Álgebra lineal*. McGraw-Hill, 2000.
2. **M. Anzola y otros**, *Problemas de álgebra*. (Especialmente tomos 1, 3, 6, 7) Madrid, 1981.
3. **J. Rojo**, *Álgebra lineal*. McGraw-Hill, 2001.
4. **F. Ayres Jr.**, *Teoría y problemas de matrices*. McGraw-Hill, 1991.
5. **J. Rojo e I. Martín**, *Ejercicios y problemas de álgebra*. McGraw-Hill, 1994.
6. **S. I. Grossman**, *Álgebra lineal*. McGraw-Hill, 1995.
7. **F. Granero**, *Álgebra y geometría analítica*. McGraw-Hill, 1992.
8. **J. Flaquer y otros**, *Curso de álgebra lineal*. Ediciones Universidad de Navarra, 1996.
9. **P. Sanz y otros**, *Problemas de álgebra lineal*. Prentice Hall, 1998.
10. **M. Castellet e I. Llerena**, *Álgebra lineal y geometría*. Reverté, 1991.
11. **J. Arvesú y otros**, *Álgebra lineal y aplicaciones*. Síntesis, 1999.
12. **J. Pérez Vilaplana**. *Problemas de cálculo de probabilidades*. Paraninfo, 1991.
13. **S. Lipschutz, M. L. Lipson**. *Teoría y problemas de probabilidad*. McGraw-Hill, 2000.

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