LINEAR ALGEBRA

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INDRANATH SENGUPTA

References

[1] M. Artin, *Algebra. 2nd Edition.* PHI Learning Private Limited (India), 2011.

This is an excellent textbook for Algebra.

[2] D.S. Dummit and R.M. Foote, *Abstract Algebra. 3rd Edition.* John Wiley & Sons, Inc., 2003.

This book is a good reference for Modules, especially for the structure theorem for finitely generated modules over a PID and the rational canonical form for linear operators.

[3] S.H. Friedberg, A.J. Insel and L.E. Spence, *Linear Algebra. 4th Edition.* PHI, India, 2003.

The style adopted in our lectures is inspired by the arrangement of materials in this book. This book is strongly recommended for self-study.

[4] S. Kumaresan, *Linear Algebra: A Geometric Approach.* PHI Learning Private Limited (India), 2000.

This book presents the subject from geometric perspective.

[5] D.W. Lewis, *Matrix Theory.* Allied Publishers Limited, 1995.

This book has useful discussions on some of the applications of matrix theory.

[6] S. Roman, *Advanced Linear Algebra. 3rd Edition.* Springer (India), 2011.

This book is a very good reference for Modules, its structure theorems and canonical forms of linear operators. It also contains detailed discussions on Symmetric Bilinear Forms.

[7] G. Strang, *Linear Algebra and Its Applications. 4th Edition.* Thomson Brooks/Cole, 2007.

This is a very good textbook which gives many applications of the subject.