

# Symmetric Matrices and Quadratic Forms

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## 1 diagonalization of symmetric matrices

[1] A **symmetric matrix** is a matrix  $A$  such that  $A^T = A$ . Such a matrix is necessarily square.

## References

- [1] D.C. Lay, S.R. Lay, and J.J. McDonald. *Linear Algebra and Its Applications*. Pearson Education, 2015.