

Engineering Mathematics

Topic-wise reference books | GATE 2027

Five topics • Two reference books

01 Linear Algebra

Matrices, eigenvalues and eigenvectors

• Higher Engineering Mathematics

B. S. Grewal

02 Calculus

Integration, differentiation, maxima and minima, vector calculus

• Advanced Engineering Mathematics

Erwin Kreyszig

03 Differential Equations

ODEs, PDEs, boundary-value problems

• Higher Engineering Mathematics

B. S. Grewal

04 Complex Variables

Analytic functions, Cauchy's theorem, residues

• Advanced Engineering Mathematics

Erwin Kreyszig

05 Probability and Statistics

Random variables, distributions, correlation and regression

• Higher Engineering Mathematics

B. S. Grewal