

UPSC Maths Optional Books

UPSC Maths Optional Books for Paper 1

[UPSC Maths Syllabus](#) for Paper-1 is advanced, and you would need the best UPSC Maths Optional Books that will help you prepare for this section. Some of the topics covered in Paper-1 are Linear Algebra, Analytic Geometry, Calculus, Vector Analysis, Dynamics & Statics, etc., and the best Maths books that would help you cover this section are mentioned below.

- Dynamics, Statics and Hydrostatics – M. Ray
- Differential Calculus – Shanti Narayan, PK Mittal
- Linear Algebra – K.C. Prasad, K B Datta
- Differential equations:- Golden series – NP Bali
- Vector Analysis – Shanti Narayan, PK Mittal
- Analytic Geometry – Shanti Narayan, DK Jha, HC Sinha, and Sharma

Maths Books for UPSC Optional Paper-2

Paper-2 contains a wide range of topics like Algebra, Real Analysis, Linear Programming, Partial Differential Equations, Mechanics, and Fluid Dynamics. The Maths books for UPSC that would give your crisp information about these topics are given below.

- Statistical Mechanism – Carson Horg
- Schaum's Outline of Matrices – Frank Ayres
- Matrices – A R Vashistha
- Coordinate Geometry – R. L. Soni
- Mathematics Dictionary – RC James
- Textbook of Coordinate Geometry – Rai Ballabh
- Analytical Solid Geometry – Shanti Narayanan, PK Mittal
- Modern Algebra – A. R. Vashistha
- Differential Equations – Schaum Series (Frank Ayres)
- Operations Research – Kanti Swarup, PK Gupta, Man Mohan
- Algebra – J. N. Sharma and S. N. Goyal

- Problems in Calculus of One Variable – I. A. Maron
- Text Book on Differential Calculus – Gorakh Prasad
- Linear Algebra – Finite Dimension Vector Spaces – Sharma and Vashishta

Other Important Maths Books for UPSC

Apart from the Maths books we have mentioned above, there are some reference books that you can add as well. But make sure you don't pick multiple books at a time just to cover one topic. Here is a list of Maths reference books.

- Statistical Mechanism – Carson Horg
- Analytical Solid Geometry – Shanti Narayanan, PK Mittal
- Text Book on Differential Calculus – Gorakh Prasad
- Operations Research – Kanti Swarup, PK Gupta, Man Mohan
- Algebra – J. N. Sharma and S. N. Goya
- Mathematics Dictionary – RC James
- Linear Algebra – Finite Dimension Vector Spaces – Sharma and Vashishta
- Schaum's Outline of Matrices – Frank Ayres
- Problems in Calculus of One Variable – I. A. Maron
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- Differential Equations – Schaum Series (Frank Ayres)
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