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Gilbert Strang Introduction to Applied Math offers a comprehensive introductory treatment of the subject. The author's explanations of Applied Mathematics are clearly stated and easy to understand. The reference includes a wide range of timely topics from symmetric linear systems to optimization as well as illuminating hands-on examples.

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In short, Strang's book is an elegant masterpiece. As a former college math major and current University science professor who uses computation daily in research, this is the best general "applied math" book I've ever seen. I highly recommend it to every graduate student and postdoc who passes through my lab.

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~~Gilbert Strang's Homepage~~

Author of Linear algebra and its applications, Introduction to linear algebra, Calculus, Introduction to applied mathematics, Analysis of the Finite Element Method, Wissenschaftliches Rechnen, Linear Algebra and its Applications, Differential equations and linear algebra

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William Gilbert Strang (born November 27, 1934), usually known as simply Gilbert Strang or Gil Strang, is an American mathematician, with contributions to finite element theory, the calculus of variations, wavelet analysis and linear algebra. He has made many contributions to mathematics education, including publishing seven mathematics textbooks and one monograph. Strang is the MathWorks Professor of Mathematics at the Massachusetts Institute of Technology. He teaches Introduction to Linear Alg

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In 2017, Professor Strang launched a new undergraduate course at MIT: Matrix Methods in Data Analysis, Signal Processing, and Machine Learning. Published on the OCW site in 2019, the course uses linear algebra concepts for understanding and creating machine learning algorithms, especially as applied to deep learning and neural networks.

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The first Su Buchin Prize from the International Congress of Industrial and Applied Mathematics, and the Haimo Prize from the Mathematical Association of America, were awarded for his contributions to teaching around the world. In 2020 MIT awarded Gilbert Strang the Irwin Sizer Prize for the Most Significant Improvement to MIT Education.

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Professor Strang has published eleven books: Differential Equations and Linear Algebra (2014) Introduction to Linear Algebra (1993,1998,2003,2009) Linear Algebra and Its Applications (1976,1980,1988,2005) An Analysis of the Finite Element Method, with George Fix (1973, 2008) Introduction to Applied Mathematics (1986) Calculus (1991)

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