References for Linear Algebra

Chng Eng Siong

10 Aug 2020

Full Courses: Video Playlist

1) Khan Academy: https://www.khanacademy.org/math/linear-algebra/

2) MIT Strang 18.06: https://ocw.mit.edu/courses/mathematics/18-06-linear-algebra-spring-2010/video-lectures/

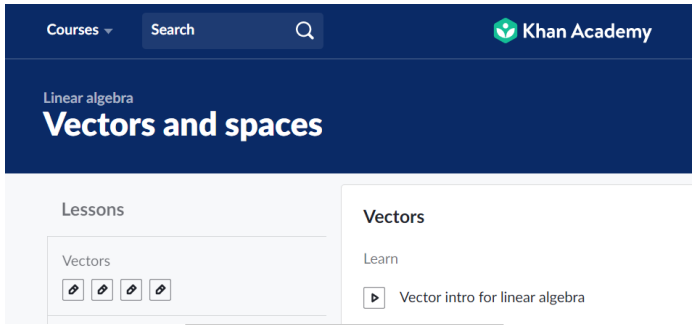
3) 3Blue1Brown: https://www.youtube.com/playlist?list=PLZHQObOWTQDPD3MizzM2xVFitgF8hE_ab

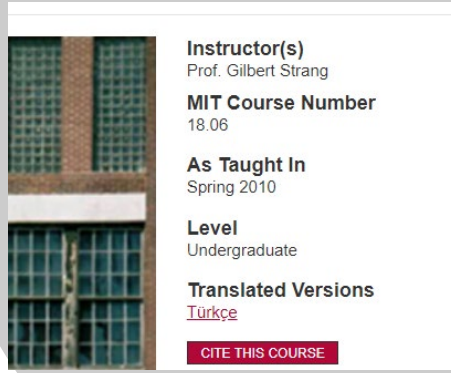
4) Trevor Bazett: https://www.youtube.com/playlist?list=PLHXZ9OQGMqxfUl0tcqPNTJsb7R6BqSLo6

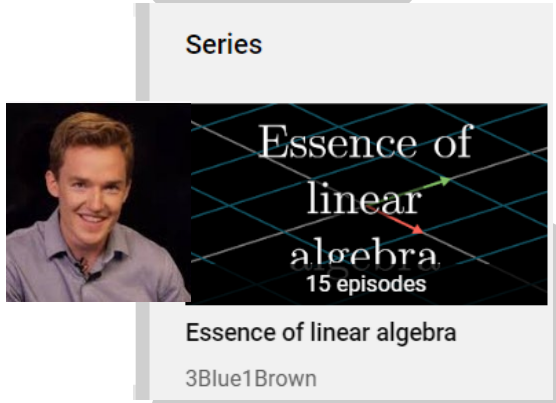
5) MathsTheBeautiful: https://www.youtube.com/watch?v=Fnfh8jNqBlg&vl=en
https://www.lem.ma/books/AIApowDnjlDDQrp-uOZVow/landing

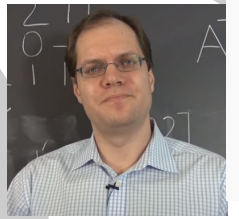
6) Prof Dave Explains: https://www.youtube.com/playlist?list=PLybg94GvOJ9En46TNCXL2n6SiqRc_iMB8

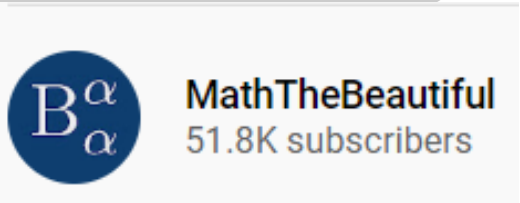
7) Patrick JMT: https://cosmolearning.org/courses/complete-quick-lessons-linear-algebra/

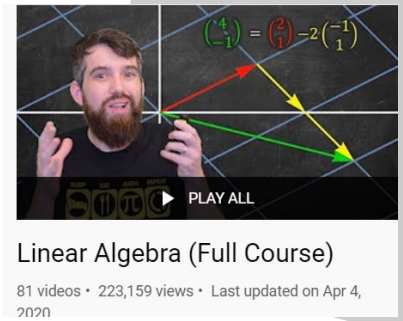


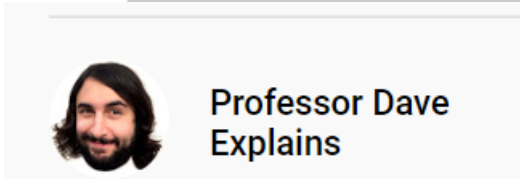


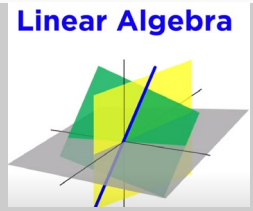


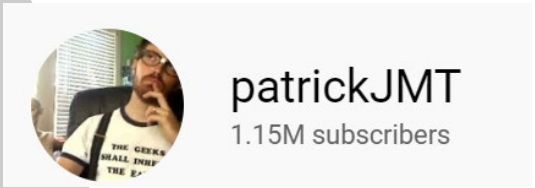






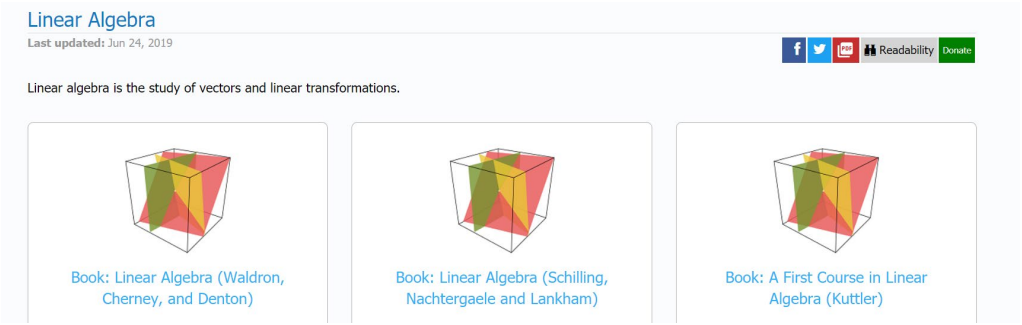


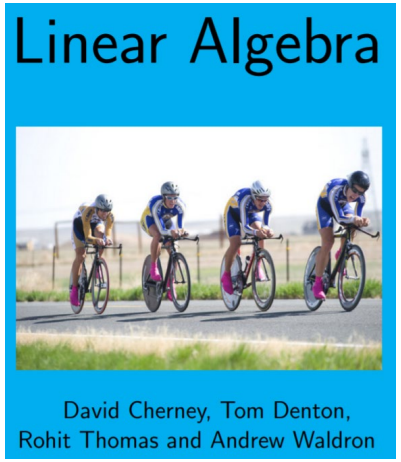


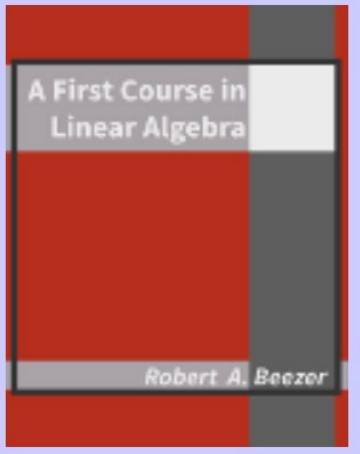


Free Linear Algebra Books

- https://math.libretexts.org/Bookshelves/Linear_Algebra
- https://www.math.ucdavis.edu/~linear/linear-guest.pdf
- http://linear.ups.edu/

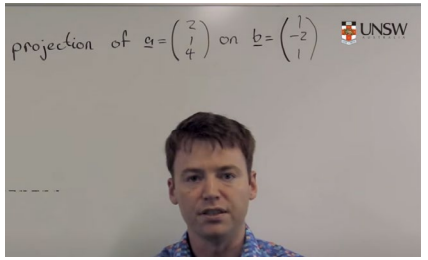




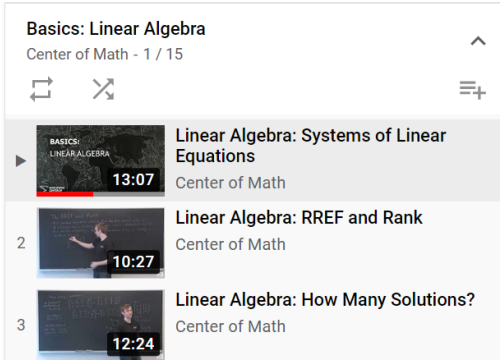


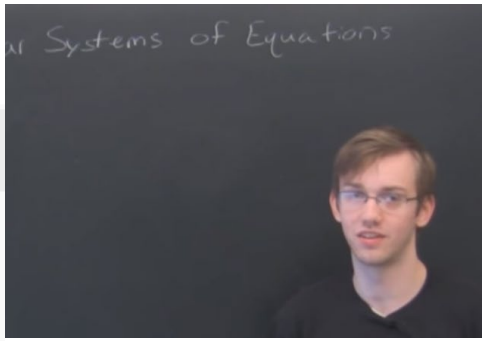
Worked examples

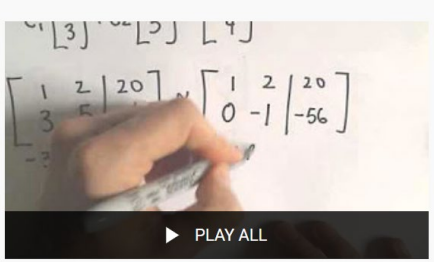
- UNSW – Maths: https://www.youtube.com/watch?v=usCWwRj2hO4



- Center of Maths: https://www.youtube.com/watch?v=TICOi14fa6I&list=PLgKTLlHQn950Xm27KxcsX7Dr9Fxv_-gEi



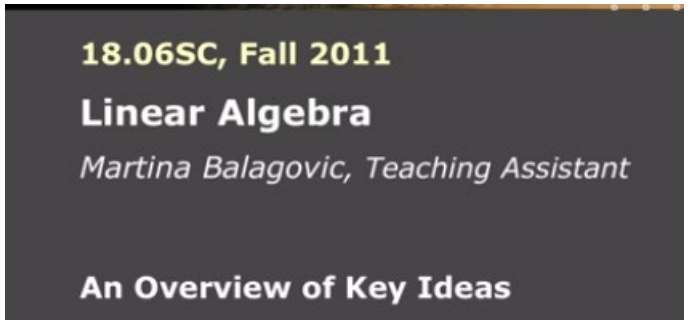




Linear Algebra by patrickJMT

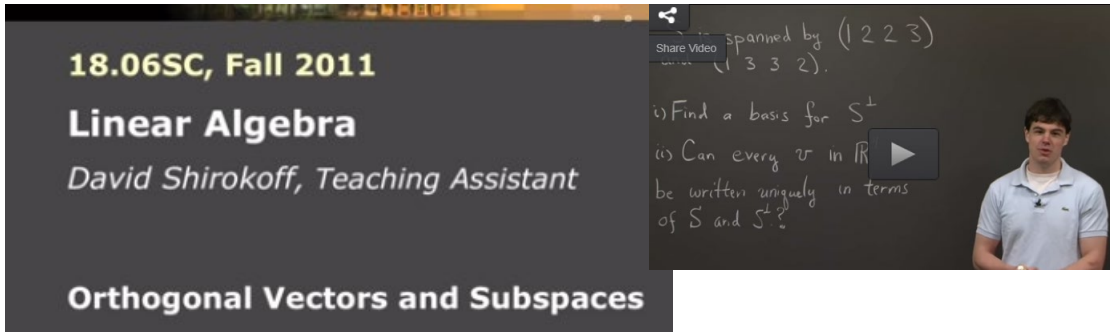
58 videos • 165,325 views • Last updated on Jun 18, 2014

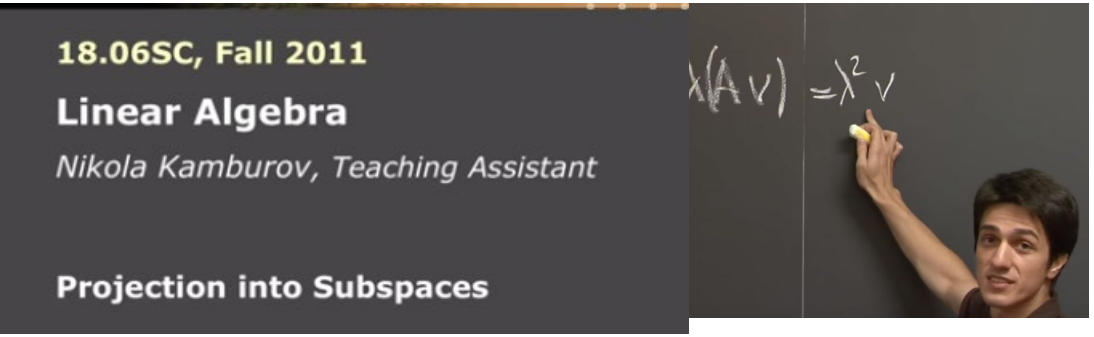
MIT worked examples:

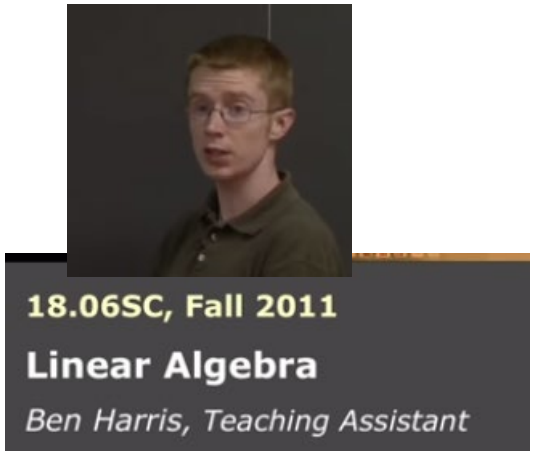


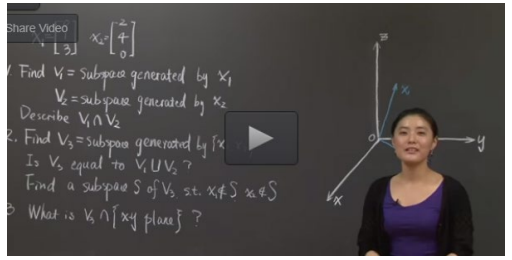
MIT – tutorial (worked examples)

https://ocw.mit.edu/courses/mathematics/18-06sc-linear-algebra-fall-2011/









Recent resources

- Medium: https://medium.com/sho-jp/tagged/linear-algebra

- Computational Linear Algebra (Masters) – U of San Francisco (Masters)
  - https://github.com/fastai/numerical-linear-algebra/blob/master/README.md
  - https://www.youtube.com/playlist?list=PLtmWHNX-gukIc92m1K0P6bIOnZb-mg0hY

- MIT Strang new course (Masters):
  - MIT 18.065 Matrix Methods in Data Analysis, Signal Processing, and Machine Learning, Spring 2018
  - https://www.youtube.com/watch?v=Cx5Z-OsINWE