

MATH 254

From MIT Open Courseware:

Click on the links to navigate to the relevant topics at MIT opencourseware:

- First order ODE's
<http://ocw.mit.edu/courses/mathematics/18-03sc-differential-equations-fall-2011/unit-i-first-order-differential-equations/>
- Second order linear ODE's with constant coefficients:
<http://ocw.mit.edu/courses/mathematics/18-03sc-differential-equations-fall-2011/unit-ii-second-order-constant-coefficient-linear-equations/>
- Fourier series and Laplace transform:
<http://ocw.mit.edu/courses/mathematics/18-03sc-differential-equations-fall-2011/unit-iii-fourier-series-and-laplace-transform/>
- First order systems of ODE's:
<http://ocw.mit.edu/courses/mathematics/18-03sc-differential-equations-fall-2011/unit-iv-first-order-systems/>

From Khan Academy:

The following link navigates to a large number of lessons on ODE's at Khan Academy:

<http://www.khanacademy.org/math/differential-equations/#math/differential-equations>

Other Links:

The following links navigate to a sequence of older video lessons on ODE's from MIT opencoursewares youtube channel listed in order from first to last:

http://www.youtube.com/watch?v=GQKfKoy4VOw&list=PLD971E94905A70448&index=6&feature=plpp_video

http://www.youtube.com/watch?v=lkpQJSDK940&list=PLD971E94905A70448&index=7&feature=plpp_video

http://www.youtube.com/watch?v=DJO6ilwbWil&list=PLD971E94905A70448&index=8&feature=plpp_video

http://www.youtube.com/watch?v=dzKnv4ntH2g&list=PLD971E94905A70448&index=9&feature=plpp_video

http://www.youtube.com/watch?v=IYKULUq6YPQ&list=PLD971E94905A70448&index=10&feature=plpp_video

http://www.youtube.com/watch?v=oY0ItxI9xTk&list=PLD971E94905A70448&index=11&feature=plpp_video

http://www.youtube.com/watch?v=an5E940fqZQ&list=PLD971E94905A70448&index=12&feature=plpp_video