

Lecture 31

Went through numerical examples of total internal reflection, i.e. guiding in a "slow" region; see Julia notebook above.

Went through analytical proof, based on the min–max theorem, that under very general conditions any regions with a smaller speed c will lead to guided-wave (localized) solutions. See notes above.

MIT OpenCourseWare
<http://ocw.mit.edu>

18.303 Linear Partial Differential Equations: Analysis and Numerics
Fall 2014

For information about citing these materials or our Terms of Use, visit: <http://ocw.mit.edu/terms>.