UNIVERSITY OF MARYLAND

DEPARTMENT OF ELECTRICAL AND COMPUTER ENGINEERING

ENEE 681   **Spring 2020**

TITLE: **Electromagnetic Theory II**

                       http://terpconnect.umd.edu/~antonsen/ENEE681_S20/

INSTRUCTOR: **T M. Antonsen Jr.**
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TA: TBD

ROOM: **EGR 3106**

TIME: **TuTh 11:00 AM – 12:15 PM**

OFFICE HOURS: **(TMA)** by appointment.

**COURSE
DESCRIPTION**   Continuation of ENEE 680. Theoretical analysis and engineering
                       applications of Maxwell's equations. The homogeneous wave
                       equation. Plane wave propagation. The interaction of plane waves and
                       material media. Retarded potentials. The Hertz potential. Simple
                       radiating systems. Relativisitic covariance of Maxwell's equations..

TEXT: Modern Electrodynamics by Andrew Zangwill, Cambridge
                       University Press, ISBN 978-0-521-89697-9

EXAMS: There will be three exams: two midterms and a
                       final exam. Some of these will be take-home

HOMEWORK: Assignments will be posted on the web.
                       Assignments may involve computation.

GRADING: Your course grade will be computed on the basis of
                       425 points apportioned as follows:

Two midterms	**200**
Final: (Usually take-home, due around Dec. 17)	**125**
Homework	**100**
	425