

مباحث ویژه در مهندسی مایکروویو

## Special Topics in Microwave

In This course Microwave Imaging techniques will be presented. The Course, after reviewing fundamental equations and main difficulties of inverse problems in high-frequency electromagnetics, will focus on classical and recently introduced solution procedures and algorithms, discussing capabilities, limitations, and perspectives of both approximate and 'exact' reconstruction methods. Applicative examples, including exercises and lessons regarding specific applications, will corroborate the developed concepts.

### References:

Introduction to Microwave Imaging, by Natalia K. Nikolova, Cambridge University Press

Microwave Imaging Methods and Applications, by Matteo Pastorino and Andrea Randazzo, Artech House Microwave Library

Reviewing some Related Scientific Papers and projects