

## **MAT 265 – Parameter Estimation and Inverse Problems**

### Reading list

Textbook: Parameter Estimation and Inverse Problems. 1<sup>st</sup> edition

Authors: R. C. Aster, B. Borchers, C. H. Turber

Publisher: Elsevier

- Chap. 1
- Chap. 2.1, 2.2
- Chap. 3.3, 3.4
- Chap. 4, except 4.5
- Chap. 5.1, 5.2, 5.3, 5.4 except Generalized Singular Value Decomposition, 5.7, 5.8
- Chap. 9, except 9.4
- Chap. 10.1
- Chap. 11, except 11.4
- Lecture notes on: Iterative Regularization, Regularization by Discretization, Bayesian Methods and Data Assimilation

The appendices in the ABT book are not part of the reading list as such, but the student is assumed to have sufficient knowledge of the contents of the appendices to be able to understand everything that is part of the reading list. All lectures are included in the reading list.

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