Econometrics II:
Detailed Reading List

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1. Identification (Manski)
   (a) Problem of identification: notes plus Manski, introduction chapter especially section on law of decreasing credibility.
   (b) Conditional prediction: notes plus Manksi, chapter 1.
   (c) Prediction with incomplete data: notes plus Manksi, chapter 2 especially 2.1 & 2.5, chapter 3, chapter 5
   (d) Treatment response (i) (the selection problem): notes plus Manski, chapter 7 especially 7.1, chapter 9.
   (e) Treatment response (ii) (planning with partial knowledge of treatment response): notes plus Manksi, chapter 11.
2. Stationary Time Series (Harvey, etc.)
   (a) Intro to time series: notes plus Harvey, 1.1 & 2.1. Further: Enders 2.1 and Hamilton 3.1 & 3.2.
   (b) AR: notes plus Harvey, 2.2. Further: Enders chapter 2, Hamilton 3.4, Greene 22.2, DeJong & Dave 7.1.1.
   (c) MA: notes plus Harvey, 2.3. Further: Enders chapter 2, Hamilton 3.3, Greene 22.2, DeJong & Dave 7.1.1.
   (d) ARMA: notes plus Harvey, 2.4. Further: Enders 2.2, Hamilton 3.4, Greene 22.2.1-2, DeJong & Dave 7.1.1.
   (e) ADL: notes plus Greene, 20.4. Further: Harvey 158-60.
   (f) ACF/PACF: notes plus Greene (theory) 21.2.3 (ACF) & 21.2.4 (PACF) and Enders (applied) 2.5+2.7 (ACF) & 2.6 (PACF). Further: Harvey 11-13 (ACF) & 75 (PACF), Hamilton 49 (ACF) & 111-12 (PACF).
   (g) Identification, estimation, testing and forecasting: notes plus Enders, 2.8, Gujarati chapter 22.
   (h) Intro to modelling volatility: Enders, 3.1.

(i) ARCH/GARCH & SV: Harvey, 275-6 (ARCH), 276-9 (GARCH), 8.4 (SV). Further: Hamilton 657-67 (ARCH & GARCH), Enders 3.1-3 (ARCH) & 3.3-5+3.7-8 (GARCH), Greene 19.13 (ARCH & GARCH), DeJong & Dave 7.1.2 (ARCH & GARCH), 8.5.2 (SV), Canova 11.2 (SV).

(j) MS: Hamilton, chapter 22. Further: Harvey 8.5-6, Enders 403-5, DeJong & Dave 8.5.3, Canova 11.3.

(k) Frequency domain: *in order from closest to our covering* – notes plus DeJong & Dave, 6.2, Greene, 21.3, Hamilton, 152-67, Harvey, chapter 6.

3. Forecasting (Notes plus Harvey, etc.)

   (a) Forecasting basics: notes plus Harvey, 32-7. Further: Hamilton chapter 4, Enders 2.9-10.

   (b) Forecast assessment: notes.

   (c) Forecasting with many predictors: notes.

4. Filtering & Simulation (Note plus Harvey, Greene, etc.)

   (a) State-space representation: notes plus Harvey, 4.1. Further: DeJong & Dave chapter 8.

   (b) Filtering: notes plus Harvey, 4.1-4 especially 4.2; (frequency related) – Hamilton, 170-172, DeJong & Dave, 6.2.4, 119-20, 6.2.5-7. Further: Hamilton chapter 13, DeJong & Dave 8.3-4.

   (c) Simulation: Greene chapters 17 & 18.

References

[1] DeJong, D.N. & Dave, C. (2011). *Structural Macroeconometrics* Princeton: Princeton University Press.

[2] Enders, W.(2009). *Applied Econometric Time Series* New Jersey: Wiley.

[3] Greene, W. (2012). *Econometrics Analysis* Boston/London: Pearson.

[4] Gujarati, D.N. (2003). *Basic Econometrics* New York: McGraw-Hill.

[5] Hamilton, J.D. (1994) *Time Series Analysis* Princeton: Princeton University Press.

[6] Harvey, A.C. (1993). *Time Series Models* Essex: Pearson Education.

[7] Manski, C.F. (2007). *Identification for Prediction & Decision* Cambridge: Harvard University Press.