MODULAR GRADUATE DIPLOMA

MODULE 3 – STOCHASTIC PROCESSES AND TIME SERIES

Ross, Introduction to Probability Models, is a text that is at about the right level for the module, but reference may be made to either Grimmett and Stirzaker or to Ross, Stochastic Processes, for some of the more advanced topics.

The books by Janacak and by Bowerman, O'Connell and Koehler provide good introductory reading, especially on the more practical aspects of the module. The books by Brockwell and Davis and by Chatfield provide more comprehensive treatments, especially of the more theoretical aspects.

Books for Stochastic Processes section of syllabus

Grimmett G and Stirzaker D	2001 3rd Ed	Probability and Random Processes	Oxford University Press
Jones P W and Smith P	2001	Stochastic Processes: an Introduction	Hodder Arnold
Ross S M	2006 9th Ed	Introduction to Probability Models	Academic Press
Ross S M	1996 2nd Ed	Stochastic Processes	Wiley

Books for Time Series section of syllabus

Bowerman B L, O'Connell R T and Koehler A B	2005 4th Ed	Forecasting, Time Series and Regression	South-Western College Publishing
Brockwell P J and Davis R A	2002 2nd Ed	Introduction to Time Series and Forecasting	Springer
Chatfield C	2003 6th Ed	The Analysis of Time Series: an Introduction	Chapman & Hall/ CRC Press
Janacek G J	2001	Practical Time Series	Hodder Arnold

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