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## Economics : Economic Growth

O'Donnell, Christopher J.

# Productivity and Efficiency Analysis

An Economic Approach to Measuring and Explaining Managerial  
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- Provides a comprehensive guide to applied productivity and efficiency analysis
- Explains how knowledge of production technologies, market structure and company behaviour can be used to inform construction of meaningful price and productivity indexes
- Shows how econometric methods can be used to decompose measures of productivity change into measures of technical change, environmental change, and different types of efficiency change

This book provides a coherent description of the main concepts and statistical methods used to analyse economic performance. The focus is on measures of performance that are of practical relevance to policy makers. Most, if not all, of these measures can be viewed as measures of productivity and/or efficiency. Linking fields as diverse as index number theory, data envelopment analysis and stochastic frontier analysis, the book explains how to compute measures of input and output quantity change that are consistent with measurement theory. It then discusses ways in which meaningful measures of productivity change can be decomposed into measures of technical progress, environmental change, and different types of efficiency change. The book is aimed at graduate students, researchers, statisticians, accountants and economists working in universities, regulatory authorities, government departments and private firms. The book contains many numerical examples. Computer codes and datasets are available on a companion website.

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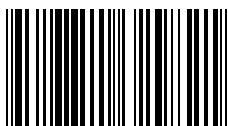
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