



1st ed. 2018, XXI, 418 p. 77 illus., 5 illus. in color. With online files/update.

#### eBook

93,08 € | £79.50 | \$109.00  
[2]93,08 € (D) | 93,08 € (A) | CHF 104,00

Available from your library or [springer.com/shop](http://springer.com/shop)

#### MyCopy [3]

Printed eBook for just

€ | \$ 24.99

[springer.com/mycopy](http://springer.com/mycopy)

#### Book w. online files/update

109,99 € | £99.99 | \$139.99  
117,69 € (D) | 120,99 € (A) | CHF 130,00

[Error\[en\\_EN | Export.Bookseller. MediumType | SE\]](#)

Christopher J. O'Donnell

# Productivity and Efficiency Analysis

An Economic Approach to Measuring and Explaining Managerial Performance

- 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.

Order online at [springer.com](http://springer.com) / or for the Americas call (toll free) 1-800-SPRINGER / or email us at: [customerservice@springernature.com](mailto:customerservice@springernature.com). / For outside the Americas call +49 (0) 6221-345-4301 / or email us at: [customerservice@springernature.com](mailto:customerservice@springernature.com).

The first € price and the £ and \$ price are net prices, subject to local VAT. Prices indicated with [1] include VAT for books; the €(D) includes 7% for Germany, the €(A) includes 10% for Austria. Prices indicated with [2] include VAT for electronic products; 19% for Germany, 20% for Austria. All prices exclusive of carriage charges. Prices and other details are subject to change without notice. All errors and omissions excepted. [3] No discount for MyCopy.

