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Disclaimer:

This pathfinder contains suggested materials on Management Science that are available in the USC Libraries. However, some references were not included.

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We welcome suggestions for new pathfinder topics.



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## MANAGEMENT SCIENCE

## PATHFINDER

## MANAGEMENT SCIENCE

**Management science**, any application of [science](#) to the study of management. Originally a synonym for [operations research](#), the term *management science* (often used in the plural) now designates a distinct field. Whereas operations research affords [analytic data](#), [statistics](#), and methods to increase the [efficiency](#) of management systems, management science applies these tools in such fields as [data mining](#), [engineering](#), [economic forecasting](#), and [logistics](#).

Management science initially included any application of science to management problems or to the process of management itself; it thus encompassed operations research, [systems analysis](#), and the study of management–information systems.

Management science could include the study of all activities of groups that entail a managerial function, it generally entails the following: (1) discovering, developing, defining, and evaluating the goals of the organization and the [alternative](#) policies that will lead toward the goals, (2) getting the organization to adopt the policies, (3) scrutinizing the effectiveness of the policies that are adopted, and (4) initiating steps to change policies that are ineffective or inadequately effective. Management science often has drawn its concepts and methods from the older [disciplines](#) of [economics](#), business administration [psychology](#), [sociology](#), and [mathematics](#).

Source: <https://www.britannica.com/topic/management-science>

### **Books: (c2013 – 2018)**

Anderson, David. (2016). *An introduction to management science: quantitative approaches to decision making*. 14 edition. Australia: Cengage Learning. 658.4033 An23

Anderson, David Ray. (2016). *Quantitative methods for business*. 13<sup>th</sup> edition. Australia: Cengage Learning. 658.4033 Q25

*Discrete-event simulation and system dynamics for management decision making* / edited by Sally Brailsford. (2014). Chichester, West Sussex: Wiley. 658.40352 D63

*Encyclopedia of applications of management science: in productivity, finance, and operations* / edited and compiled by Koros Press. (2015). 658.4033 En19

*The handbook of behavioral operations management: social and psychological dynamics in production and service settings* / edited by Eliot Ben doly. New York: Oxford University Press. 658.5 H19

Hillier, Frederick. (2014). *Introduction to management science: modeling and case studies approach with spreadsheets*. 5<sup>th</sup> edition. New York: McGraw-Hill.005.54 H55

*Industrial engineering and management science: proceedings of the 2015 International Conference on Industrial Engineering and Management Science (IEMS 2014), 8-9 August, Hong Kong* / by Garry Lee. Nether lands: CRC Press. 658.5 In2

Ragsdale, Cliff T. (2018). *Spreadsheet modeling and decision analysis: a practical introduction to business analytics*. 8<sup>th</sup> edition. Australia: Cengage Learning. 658.40300285554 R12

Render, Barry. (2018). *Quantitative analysis for management*. England: Pearson Education Limited. 658.40332 R29

Sirug, Winston. (2015). *Basic quantitative methods for business: an introduction to operations research management science*. Manila: Mindshapers Co., Inc. 658.4033 Si79 Filipiniana Book

Taylor, Bernard W. (2013). *Introduction to management science*. 11<sup>th</sup> edition. Boston: Pearson. 658.5 T21

Winston, Wayne. (2016). *Practical management science*. 5<sup>th</sup> edition. Australia: Cengage Learning. 658.0015195 W73

### **e-Books:**

*Building an effective environmental management science program: initial assessment*. (1996). Retrieved from <https://ebookcentral.proquest.com>

Gu, Z. (2014). *Management science applications in tourism and hospitality*. Retrieved from <https://ebookcentral.proquest.com>

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Rudall, B. H. (Ed.). (2007). *Management science : current researches and developments - part ii*. Retrieved from <https://ebookcentral.proquest.com>

Wu, B. (2013). *New theory on leadership management science*. Retrieved from <https://ebookcentral.proquest.com>