



# Life Cycle Assessment (LCA): A Guide to Best Practice

By Walter Klöpffer, Birgit Grahl

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**Life Cycle Assessment (LCA): A Guide to Best Practice** By Walter Klöpffer, Birgit Grahl

This first hands-on guide to ISO-compliant Life Cycle Assessment (LCA) makes this powerful tool immediately accessible to both professionals and students. Following a general introduction on the philosophy and purpose of LCA, the reader is taken through all the stages of a complete LCA analysis, with each step exemplified by real-life data from a major LCA project on beverage packaging. Measures as carbon and water footprint, based on the most recent international standards and definitions, are addressed.

Written by two pioneers of LCA, this practical volume is targeted at first-time LCA users but equally makes a much-valued reference for more experienced practitioners.

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### **Editorial Review**

#### **Review**

'The textbook is divided into six chapters and is both very readable, as well as comprehensive. For those who wish to teach from it, extensive and quite up-to-date references are included.' (David Hunkeler 2016)

#### **From the Back Cover**

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#### **About the Author**

Walter Klöpffer is consultant for life cycle and chemicals assessment in Frankfurt (Germany). After his studies of chemistry at the University of Graz (Austria) he was working for nearly thirty years at the Battelle Institute e.V. in Frankfurt, followed by a position at C.A.U. Ltd. in Dreieich (Germany). Since 1975 he has also been Professor of Physical Chemistry at the University of Mainz. Professor Klöpffer is the founding editor and current editor-in-chief of 'The International Journal of Life Cycle Assessment'.

Birgit Grahl studied chemistry at the University of Hamburg (Germany). She then headed the chemistry department of the Iko-Institut e.V. Freiburg (Germany), followed by several years as co-owner and director of a commercial laboratory (Germany) and afterwards working as a freelance consultant in the field of industrial ecology. Dr. Grahl was involved in the development of the ISO 14040 series, is a member of the editorial board of 'The International Journal of Life Cycle Assessment' and professor at the University of Applied Sciences in Lbeck (Germany).

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