



## Vicious Circles: On the Mathematics of Non-Wellfounded Phenomena (CSLI Lecture Notes)

By Jon Barwise, Lawrence S. Moss

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Circular analyses of philosophical, linguistic, or computational phenomena have been attacked on the assumption that they conflict with mathematical rigour. Barwise and Moss have undertaken to prove this assumption false. This volume is concerned with extending the modelling capabilities of set theory to provide a uniform treatment of circular phenomena. As a means of guiding the reader through the concrete examples of the theory, the authors have included many exercises and solutions: these exercises range in difficulty and ultimately stimulate the reader to come up with new results. Vicious Circles is intended for use by researchers who want to use hypersets; although some experience in mathematics is necessary, the book is accessible to people with widely differing backgrounds and interests.

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**Vicious Circles: On the Mathematics of Non-Wellfounded Phenomena (CSLI Lecture Notes) By Jon Barwise, Lawrence S. Moss Bibliography**

- Rank: #2090054 in Books
- Published on: 1996
- Original language: English
- Number of items: 1
- Dimensions: 9.00" h x 1.20" w x 6.00" l, 1.27 pounds
- Binding: Paperback
- 390 pages

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Review

'... a book to learn from.' L'Enseignement Mathématique

About the Author

**Jon Barwise** (1942–2000) was professor of philosophy, mathematics, and computer science at Indiana University and one of the founding members of the Center for the Study of Language and Information (CSLI).

**Lawrence S. Moss** is professor of mathematics; director of the Program in Pure and Applied Logic; an adjunct professor of computer science, informatics, linguistics, and philosophy; and a member of the Programs in Cognitive Science and Computational Linguistics, all at Indiana University, Bloomington.

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