

# The Illusion of the Illusion of Thinking

A Comment on Shojaee et al. (2025)

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## Abstract

Shojaee et al. (2025) report that Large Reasoning Models (LRMs) exhibit "accuracy collapse" on planning puzzles beyond certain complexity thresholds. We demonstrate that their findings primarily reflect experimental design limitations rather than fundamental reasoning failures. Our analysis reveals three critical issues: (1) Tower of Hanoi experiments systematically exceed model output token limits at reported failure points, with models explicitly acknowledging these constraints in their outputs; (2) The authors' automated evaluation framework fails to distinguish between reasoning failures and practical constraints, leading to misclassification of model capabilities; (3) Most concerningly, their River Crossing benchmarks include mathematically impossible instances for  $N \geq 6$  due to insufficient boat capacity, yet models are scored as failures for not solving these unsolvable problems. When we control for these experimental artifacts, by requesting generating functions instead of exhaustive move lists, preliminary experiments across multiple models indicate high accuracy on Tower of Hanoi instances previously reported as complete failures. These findings highlight the importance of careful experimental design when evaluating AI reasoning capabilities.

## 1 Introduction

Shojaee et al. (2025) claim to have identified fundamental limitations in Large Reasoning Models through systematic evaluation on planning puzzles. Their central finding—that model accuracy "collapses" to zero beyond certain complexity thresholds—has significant implications for AI reasoning research. However, our analysis reveals that these apparent failures stem from experimental design choices rather than inherent model limitations.

# Study Of Thinking Paper

**DJ Losen**



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**Thinking about the Teaching of Thinking** Dorothy R. Howie, 2019-08-06 Thinking about the Teaching of Thinking provides an accessible and comprehensive introduction to Feuerstein's theory of Mediated Learning Experience and its related tools and programmes. It details up to date international and New Zealand research on the Feuerstein approach which reflects the current issues in the teaching of thinking. The book begins by defining what is meant by the teaching of thinking and provides an easy to understand explanation of the Feuerstein method and its value for children with learning challenges. It champions a whole school approach to the teaching of thinking and details the practical tools and programmes developed by Feuerstein such as Instrumental Enrichment and the Learning Propensity Assessment Device to aid in its implementation. It also recognises the key importance of cultural factors in the teaching of thinking bringing together the author's considerable research experience using the Feuerstein method in the multicultural New Zealand context with her extensive knowledge of international Feuerstein research. This book provides a user friendly and unique coverage of the Feuerstein method for researchers and postgraduate students researching and working in educational psychology. It will also be of great value for teachers and parents looking to understand and decide on implementation of the Feuerstein approach in their schools.

*A STUDY ON DESIGN THINKING ABILITY ON JOB ENRICHMENT OF SELECT SCHOOL TEACHERS IN CHENNAI* Dr. S. CHITRA, **Proceedings of the Aristotelian Society for the Systematic Study of Philosophy**

Aristotelian Society (Great Britain), 1909 List of members in each volume Ways of Thinking in STEM-based Problem Solving Lyn D. English, Timothy Lehmann, 2024-10-14 Taking a future oriented approach this book addresses students ways of thinking in STEM based problem solving. It provides a rich set of chapters that explore how we can advance important thinking skills in STEM education for K-12 students. STEM education is essential to understanding and solving many of the world's major challenges. However the kind of interdisciplinary modes of thinking required to tackle such unforeseen problems is lacking in most STEM education delivery. This book examines the various ways of thinking that can be applied to effective STEM based problem solving across K-12 education. These include design and design based thinking systems thinking and modeling critical thinking innovative and adaptive thinking intuition in problem solving and computational and algorithmic thinking. Across the chapters the authors interdisciplinary perspectives give further depth to understanding how students learn and apply their thinking to solve STEM based problems. The book also provides guidance on how to assess ways of thinking in STEM education to ensure educators can recognize students progress and development. Bringing together a team of international experts this book is essential reading for pre-service teachers teacher educators and researchers in STEM education. The Pedagogical Seminary, 1898 Vols 5-15 include Bibliography of child study by Louis N Wilson

**New Ways of Thinking about Nursing** Gary Rolfe, 2019-07-10 This book collects together 12 previously unpublished conference and seminar presentations which cover a broad range of topics including evidence based practice reflective

practice practice development nurse education nursing scholarship and a variety of philosophical issues applied to nursing The common theme uniting all of these contributions is the assertion that the research based technical rational approach to nursing and other health care disciplines is failing our patients our students and our profession In a series of closely argued papers the book challenges some of the taken for granted assumptions that underpin modern evidence based nursing practice research and education It proposes a philosophy of nursing that unites practitioners academics teachers and researchers in a person centred human science of nursing that directly addresses the needs of each individual patient This book will be of interest to final year undergraduates Masters and doctoral students practising nurses undertaking further study nurse academics and researchers as well as anyone who is searching for a better way of doing nursing

**Design Thinking and the New Spirit of Capitalism** Tim Seitz,2019-11-26 An ethnographic study on Design Thinking this book offers profound insights into the popular innovation method centrally exploring how design thinking s practice relates to the vast promises surrounding it Through a close study of a Berlin based innovation agency Tim Seitz finds both mundane knowledge practices and promises of transformation He unpacks the relationships between these discourses and practices and undertakes an exploratory movement that leads him from practice theory to pragmatism In the course of this movement Seitz makes design thinking understandable as a phenomenon of what Boltanski and Chiapello described as the new spirit of capitalism that is an ideological structure that incorporates criticism and therefore strengthens capitalism

**Journal for the Study of Consciousness** ,1969 **Pulp and Paper Magazine of Canada** ,1914 **Critical Thinking and the Academic Study of Religion** Richard Penaskovic,1997 Originally Published by Scholars Press Now Available from Duke University Press This work responds to a renewed emphasis on teaching in the academy Written from the perspective of a classroom teacher it is a practical application of the principles behind the critical thinking movement to the study of religion Emphasizing that the acquisition of critical thinking depends less on what is taught than on how it is taught the author presents concrete examples from his own experience to illustrate a student centered approach to teaching By demonstrating how the study of religion contributes to the development of critical thinking through the acquisition of problem solving decision making and metacognitive skills Penaskovic suggests its value to a broader liberal arts curriculum as well Both a theoretical view of critical thinking and a nuts and bolts manual on how it can be used and assessed in the classroom this work will challenge new and veteran teachers alike to reexamine and renew what the do in the classroom

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**Papers, Reports, and Discussions** National Association of Corporation Schools (U.S.). Convention,1920 *Thinking: Current Experimental Studies* Carl P. Duncan,1967

**Psychological Review** James Mark Baldwin, James McKeen Cattell, Howard Crosby Warren, John Broadus Watson, Herbert Sidney Langfeld, Carroll Cornelius Pratt, Theodore Mead Newcomb, 1923 Issues for 1894 1903 include the section Psychological literature **Christian Advocate** ,1908 Papers and Proceedings of the ... Annual Meeting of the American Economic Association American Economic Association. Annual Meeting, 1925 **The Art of Thinking** Thomas Sharper Knowlson, 1904 *The Thinking Hand* James Granville Legge, 1914

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