

Review of the volume “Logic: Theory and Exercises”, authored by Loredana Terec-Vlad and Corneliu-Vasile Oprea

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Abstract

The volume Logic: Theory and Exercises, authored by Loredana Terec-Vlad and Corneliu-Vasile Oprea, constitutes a comprehensive introduction to the study of logic, combining theoretical exposition with practical applications. It provides readers with a clear understanding of essential concepts, ranging from the fundamental principles of traditional logic to syllogisms, inferences, and refutation techniques. The book is logically and progressively structured, with exercises that support the assimilation of knowledge. Through its applied nature, the work proves useful not only for students and educators but also for any person interested in developing analytical and critical thinking, being relevant across multiple fields.

Keywords: *logic, reasoning, syllogism, inference, demonstration, argumentation, fallacies, analysis.*

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The volume *Logic: Theory and Exercises* constitutes a comprehensive analysis of the principles and methods of logic, designed to offer readers a balance between theory and practice. The authors emphasize the importance of logic in various contexts, ranging from education and academic debate to decision-making processes in everyday life. Through a well-organized structure, the work addresses topics such as the principles of traditional logic, techniques of argumentation, syllogisms, and fallacies, demonstrating their relevance to critical and analytical thinking.

A strong point of the work lies in the clarity with which the fundamental concepts of logic are presented. The basic principles – identity, non-contradiction, the law of the excluded middle, and sufficient reason – are explained in an accessible manner, complemented by practical examples that assist readers in understanding and applying these ideas. The authors succeed in balancing theoretical information with applied exercises, making this work an indispensable learning tool.

The relevance of the subject is significant, as logic represents an essential discipline for the development of critical thinking and for the evaluation of the validity of arguments. In a world dominated by information, the capacity to analyze reasoning and to distinguish between valid arguments and fallacies is crucial. From this perspective, the volume provides readers with the necessary tools to successfully navigate the informational complexity of contemporary society.

The volume *Logic: Theory and Exercises* stands out through its balance between theory and practice, in contrast to other works on logic that tend to focus exclusively on the theoretical dimension. This volume combines clear explanations with exercises that stimulate the immediate application of knowledge. Moreover, its progressive structure allows readers to advance at their own pace, making the work suitable for both beginners and more advanced learners.

The exercises in the book are varied and challenging, being designed to test and consolidate the knowledge acquired. Each chapter includes a series of practical activities that facilitate the understanding and application of the concepts presented. For instance, the chapter on syllogisms includes both exercises for identifying the structure of syllogisms and for validating them, while the chapter dedicated to fallacies challenges readers to identify logical errors and to formulate correct counterarguments.

The volume addresses the topic of fallacies and paralogisms by offering a detailed perspective on reasoning errors. The authors

explain the differences between fallacies – which are deliberate and intended to manipulate – and paralogsms, which result from unintentional mistakes. The examples provided are well chosen, illustrating common situations in which such errors frequently occur, such as public debates or persuasive arguments in the media.

Another remarkable feature of the work is the attention given to categorical and compound propositions, emphasizing the importance of logical connectives (“and”, “or”, “if-then”) in constructing and validating complex reasoning. These topics are essential for understanding formal logic, and the authors succeed in presenting them in a clear and accessible manner, supported by numerous examples and practical applications.

The volume *Logic: Theory and Exercises* stands out through its interdisciplinary approach, as logic is not treated solely as an academic discipline, but also as a tool applicable in everyday life. The authors emphasize the relevance of logical principles in fields such as education, law, politics, and communication, demonstrating the impact of logical thinking on personal and professional success.

From a stylistic perspective, the book is written using accessible language, avoiding excessive jargon. The explanations are clear and concise, and the examples are selected to reflect real-life situations. The logical structure of the volume contributes to a fluent learning activity, allowing readers to progress through the material without difficulty.

In conclusion, the volume *Logic: Theory and Exercises* is a valuable resource for anyone seeking to understand and apply logic effectively. The authors succeed in combining theory with practice in a balanced manner, providing readers with an indispensable educational tool. Through its interdisciplinary approach and practical applicability, the volume makes a significant contribution to the development of critical and analytical thinking, being a useful resource both for students and for professionals in various fields.

References

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