

VISUALIZATION, EXPLANATION  
AND REASONING STYLES IN  
MATHEMATICS

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 Springer

## Visualization Explanation And Reasoning Styles In Mathematics

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**Summary :** Free visualization explanation and reasoning styles in mathematics pdf download - in the 20th century philosophy of mathematics has to a great extent been dominated by views developed during the so-called foundational crisis in the beginning of that century these views have primarily focused on questions pertaining to the logical structure of mathematics and questions regarding the justification and consistency of mathematics paradigmatic in this respect is Hilbert's program which inherits from Frege and Russell the project to formalize all areas of ordinary mathematics and then adds the requirement of a proof by epistemically privileged means nitistic reasoning of the consistency of such formalized theories while interest in modified versions of the original foundational programs is still thriving in the second part of the twentieth century several philosophers and historians of mathematics have questioned whether such foundational programs could exhaust the realm of important philosophical problems to be raised about the nature of mathematics some have done so in open confrontation and hostility to the logically based analysis of mathematics which characterized the classical foundational programs while others and many of the contributors to this book belong to this tradition have only called for an extension of the range of questions and problems that should be raised in connection with an understanding of mathematics the focus has turned thus to a consideration of what mathematicians are actually doing when they produce mathematics questions concerning concept-formation understanding heuristics changes in style of reasoning the role of analogies and diagrams etc

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