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Erhard Scholz  
**Symmetrie  
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**BIRKBEÄUSER**

# Symmetrie Gruppe Dualitat

**D Siedentop**



## **Symmetrie Gruppe Dualität:**

*Symmetrie Gruppe Dualität* Erhard Scholz, 1989-10-01 Diese Arbeit enthält zwei größere Fallstudien zur Beziehung zwischen theoretischer Mathematik und Anwendungen im 19. Jahrhundert. Sie ist das Ergebnis eines mathematikhistorischen Forschungsprojekts am Mathematischen Fachbereich der Universität Gesamthochschule Wuppertal und wurde dort als Habilitationsschrift vorgelegt. Ohne das wohlwollende Interesse von Herrn H. Scheid und den Kollegen der Abteilung für Didaktik der Mathematik wäre das nicht möglich gewesen. Inhaltlich verdankt sie direkt oder indirekt vielen Beteiligten etwas. So wurde mein Interesse an den kristallographischen Symmetriekonzepten dem Thema der ersten Fallstudie durch Anregungen und Hinweise von Herrn E. Brieskorn geweckt. Sowohl von seiner Seite als auch von Herrn J. J. Burckhardt stammen überdies viele wertvolle Hinweise zum Manuskript von Kapitel I. Herrn C. J. Scriba möchte ich für seine die gesamte Arbeit betreffenden präzisen Anmerkungen danken und Herrn W. Borho ebenso für seine übergreifenden Kommentare und Vorschläge. Bezüglich der in Kapitel II behandelten projektiven Methoden in der Baustatik des 19. Jahrhunderts gilt mein besonderer Dank den Herren K. E. Kurrer und T. Hünseroth für ihre zum Teil sehr detaillierten Anmerkungen aus dem Blickwinkel der Geschichte der Bauwissenschaften. Schließlich geht mein Dank an alle nicht namentlich Erwähnten, die in Gesprächen technisch oder auch anderweitig zur Fertigstellung dieser Arbeit beigetragen haben. Für die vorliegende Publikation habe ich einen Anhang mit einer Skizze von in unserem Zusammenhang besonders wichtig erscheinenden Aspekten der Theorie der kristallographischen Raumgruppen hinzugefügt. Ich hoffe, daß er zum Verständnis des mathematischen Hintergrunds der historischen Arbeiten des ersten Kapitels beiträgt.

**Symmetrie Gruppe Dualität** E. Scholz, 2013-03-07 *Symmetrie Gruppe Dualität* E. Scholz, 1989-10-01 **The Shock of Recognition** Lewis

Pyenson, 2020-10-12 In *The Shock of Recognition* Lewis Pyenson uses a method called Historical Complementarity to identify the motif of non figurative abstraction in modern art and science. He identifies the motif in Picasso's and Einstein's educational environments. He shows how this motif in domestic furnishing and in urban lighting set the stage for Picasso's and Einstein's professional success before 1914. He applies his method to intellectual life in Argentina, using it to address that nation's focus on an inventory of the natural world until the 1940s, its adoption of non figurative art and nuclear physics in the middle of the twentieth century, and attention to landscape painting and the wonder of nature at the end of the century.

From Hesiod to Saussure, From Hippocrates to Jevons: Volume III Jens Høyrup, 2024-05-31 This book is the third of a three volume set introducing the history of scientific thought including social and human science. The area covered in this volume is Western Europe during the 18th and 19th centuries. Combining general descriptions with extensive excerpts from original sources in English translation, it concentrates on ways of thinking and actual argumentation and not just on results and mistakes. Questions of validity are primarily dealt with in the perspective of the time of the writing, not on that of the 21st century. The work is of great interest to historians of science and culture, students as well as seasoned workers, but also for

amateurs willing to invest the necessary serious efforts      *Zeitschrift Für Kristallographie* ,1991      **Mathematical**  
**Reviews** ,1993      *Journal of analysis and its applications* ,1982      *Symmetrie, Gruppe, Dualitat/Science Networks Series*  
 Erhard Scholz,1989-09      *Institutions and Applications* David E. Rowe,John McCleary,1989-12-28 Band 2      **Boston**  
**Studies in the Philosophy of Science** ,1996      *Tractrix* ,1993      *Bulletin (new Series) of the American Mathematical*  
*Society* ,2008      *Archives internationales d'histoire des sciences* ,1992      **The History of Modern Mathematics**  
 Eberhard Knobloch,1994-07-05 This volume contains nine essays dealing with historical issues of mathematics The topics  
 covered span three different approaches to the history of mathematics that may be considered both representative and vital  
 to the field The first section Images of Mathematics addresses the historiographical and philosophical issues involved in  
 determining the meaning of mathematical history The second section Differential Geometry and Analysis traces the  
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 International Collaboration discusses the structure and interaction of mathematical communities through studies of the social  
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**Sciences** ,2004      **Books in Print** ,1977      *Die Symmetrie der Kristalle* BURCKHARDT,SCHOLZ,1988-04  
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