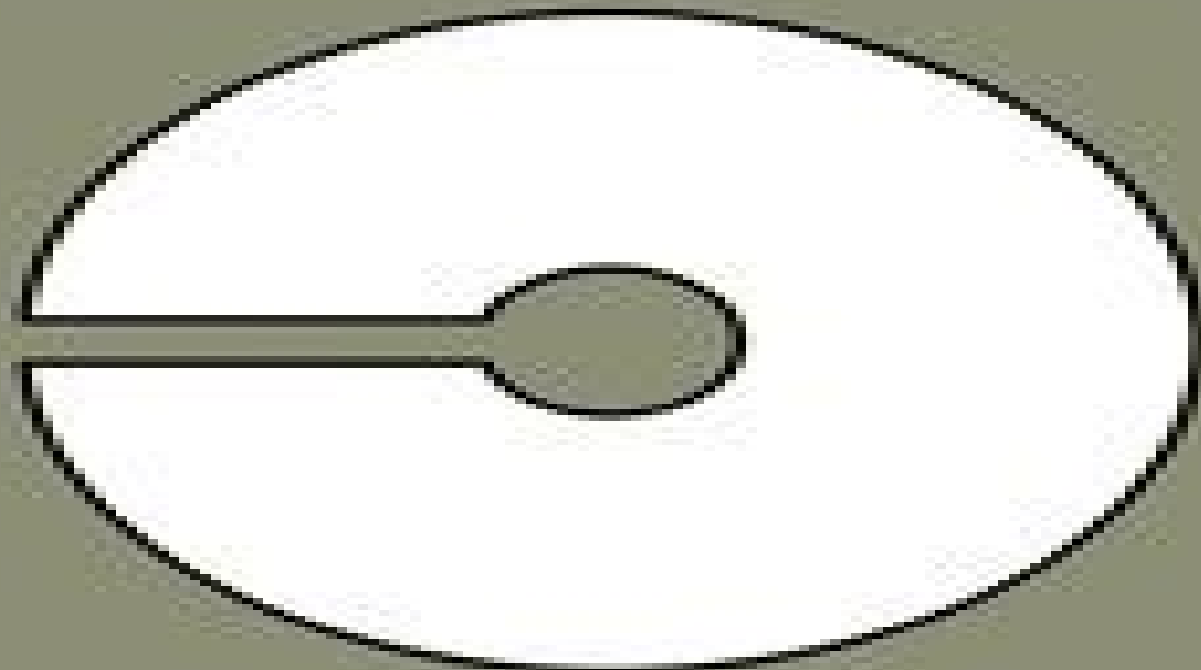


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*Special Functions  
and the Theory of*  
GROUP  
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# Group Representations And Special Functions

**Naum Jakovlevič Vilenkin**



## **Group Representations And Special Functions:**

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In theoretical physics, routine use is made of many properties such as recurrence relations and addition theorems of the special functions of mathematical physics. These properties are for the most part classical and their derivations are usually based on the methods of classical analysis. The purpose of this book is to show how these functions are also related to the theory of group representations and to derive their important properties from this theory. This approach elucidates the geometric background for the existence of the relations among the special functions. Moreover, the derivations may be more rationally motivated than are the usual complicated manipulations of power series, integral representations, and so on. I hope that the reader may find in this book reasonably simple derivations of many of the relations commonly used in theoretical physics for which the proofs may otherwise be somewhat unfamiliar. In order that the book be fairly self-contained, approximately the

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