

<<代数及相关领域最新进展>>

图书基本信息

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作者：董崇英，李福安 著

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### 内容概要

董崇英教授是杰出青年基金（B）的获得者。

他是国际上无限维李代数和顶点算子代数领域最杰出的数学家之一。

本书将介绍代数及领域相关的一些最新研究进展。

具体说来，将讨论具c

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章节摘录

The purpose of this paper is basically to give a survey on the theory of spherical  $t$ -designs and Euclidean  $t$ -designs. We will first recall the definitions of spherical  $t$ -designs and Euclidean  $t$ -designs. We discuss some examples and look at the problem of finding and classifying tight spherical designs and tight Euclidean designs. We plan to discuss the connection with the curvature formulas in numerical analysis on one hand, and the connection with groups and sphere packing problems on the other hand.

2000 Mathematics Subject Classification : primary 05E99 ; secondary 05B99 , 51M99 , 62K99

Keywords : Euclidean designs , spherical designs , tight designs , association schemes , universally optimal codes , Assmus-Mattson type theorem

This paper is an extended version of the talk titled " On Euclidean  $t$ -Designs " given by the first author at the conference in honor of Professor Zhixian Wang's 80th birthday in Beijing in August 18-20 , 2007 , The abstract given above reflects the actual talk. In the talk, we discussed extensively on the connections of curvature formulas in numerical analysis with the theory of spherical and Euclidean designs. Since the exposition discussing this part was already written up in 090 , we will !

not treat this part much in this paper.

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