

《索伯列夫空间和插值空间导论》

图书基本信息

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内容概要

《索伯列夫空间和插值空间导论(英文)》是以作者研究生教程的讲义为蓝本整理扩充而成，全面讲述了索伯列夫空间和插值理论。书中包括42章，每章尽可能多的包括研究生学习所需的材料，不仅是一部研究生学习的讲义材料，也是很多老师学者关心的课题。

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章节摘录

版权页：插图： Solving nonlinear partial differential equations sometimes requires a careful use of adapted functional spaces, and knowing the theory of interpolation spaces is helpful for creating a large family of such spaces, some of them quite useful. Many of the nonlinear partial differential equations which are studied have their origin in continuum mechanics or physics, but very few mathematicians take time to try to understand what the right equations and the right questions should be, and many work for years on distorted equations without knowing it; there are unfortunately many who know the defects of the models that they use but prefer to hide them in order to pretend that they are working on some useful realistic problem. It is wiser to be aware of the defects of the models, but it happens that very honest mathematicians are unaware of some practical limitations of the equations that they study, and when Jean LERAY told me that he did not want the Germans to know that he had worked on questions of fluid dynamics,¹ and that he had said that he was a topologist, I first thought that it was for fear that his results on the Navier-Stokes equation could be used by the enemy, which would have been very naive, as they were much too theoretical to be of any practical use, but more likely he had meant that he did not want to be forced to work on practical problems in fluid dynamics. Many do not seem to realize that the equations that mathematicians work with under the name of the Navier-Stokes equation are oversimplified and therefore not so realistic, but the motivation of a mathematician for working In 1984, I had mentioned the political difficulties that I was encountering in the French university system, and Jean LERAY had explained to me the origin of the political difficulties that he had encountered himself almost forty years earlier. As an officer in the French army, he had been taken prisoner and he had spent most of World War II in a German camp, while a famous member of the Bourbaki group had dodged the draft; inside the camp, he had continued to do research, and he had even organized a university, of which he was the chancellor. He worked on topology, and soon after introduced the basic ideas for sheaf theory, which another member of the Bourbaki group plagiarized afterward.

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编辑推荐

《索伯列夫空间和插值空间导论(英文)》通过大量的脚注讲述了本教程的形成过程有关老师的趣闻轶事，这使《索伯列夫空间和插值空间导论(英文)》不仅是一本很完善的教程，而且也非常适用于相关专业的科研人员。

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精彩短评

1、Tartar是个比较特别的人，学术水平很高，但是又不太喜欢交际。他的这本著作有相当高的水准，讲解清晰。

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