<<伽罗瓦理论>>

图书基本信息

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前言

There are too many errors in the first edition, and so a "corrected nth printing" would have been appropriate. However, given the opportunity to makechanges, I felt that a second edition would give me the flexibility to changeany portion of the text that I felt I could improve. The first edition aimedto give a geodesic path to the Fundamental Theorem of Galois Theory, and I still think its brevity is valuable. Alas, the book is now a bit longer, but I feel that the changes are worthwhile. I began by rewriting almost allthe text, trying to make proofs clearer, and often giving more details thanbefore. Since many students find the road to the Fundamental Theoreman intricate one, the book now begins with a short section on symmetrygroups of polygons in the plane; an analogy of polygons and their symmetry groups with polynomials and their Galois groups can serve as a guideby helping readers organize the various definitions and constructions. Theexposition has been reorganized so that the discussion of solvability byradicals now appears later; this makes the proof of the Abel-Ruffini theorem easier to digest. I have also included several theorems not in the firstedition. For example, the Casus Irreducibilis is now proved, in keepingwith a historical interest lurking in these pages. I am indebted to Gareth Jones at the University of Southampton who, after having taught a course with the first edition as text, sent me a detailed list of errata along with perspicacious comments and suggestions. Ialso thank Evan Houston, Adam Lewenberg, and Jack Shamash who madevaluable comments as well. This new edition owes much to the generosityof these readers, and I am grateful to them.

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内容概要

本书是第二版，较第一版有很大的改进。
证明更加清晰、详尽。
由于多变形对称群和多项式的Galois群的相似性，书中以平面上的多边形对称群为开始。
这种相似性可以帮助读者理解书中的有关理论知识。
书中也包含了一些新的定理，例如：不可约情形。
书中用完整的证明和大量练习清晰、有效地讲述了Galois理论。
包括：立方、四次方公式的Galois理论的基本理论；五次Galois大定理的不可解性；立方和四次方Galois群的计算。
补充了群论、尺规结构和Galois的早期历史。
本书是一本Galois理论简明教程，很适合研究生一年级作为教材学习；也是一本很理想的课外学习书。
目次：对称；环；同态和理想；商环；域上的多项式环；素理想和最大理想；不可约多项式；经典多项式；分裂域；Galois群；单位根；根式可解性；特征的独立性；Galois扩张；Galois理论的基本定理；应用；Galois大定理；判别式；二次、三次、四次多项式的Galois群；结尾。

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