

Kirtland

Complementation of Normal Subgroups

In Finite Groups

Starting with the Schur-Zassenhaus theorem, this monograph documents a wide variety of results concerning complementation of normal subgroups in finite groups. The contents cover a wide range of material from reduction theorems and subgroups in the derived and lower nilpotent series to abelian normal subgroups and formations.

Contents

Prerequisites

The Schur-Zassenhaus theorem: A bit of history and motivation

Abelian and minimal normal subgroups

Reduction theorems

Subgroups in the chief series, derived series, and lower nilpotent series

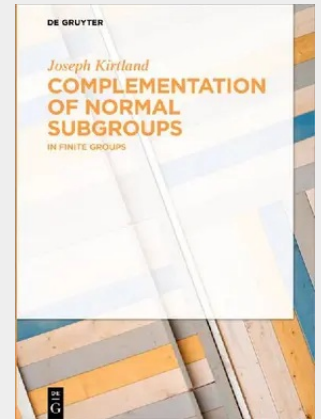
Normal subgroups with abelian sylow subgroups

The formation generation

Groups with specific classes of subgroups complemented

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134,95 €

126,12 € (zzgl. MwSt.)

Lieferfrist: bis zu 10 Tage

Artikelnummer: 9783110478792

Medium: Buch

ISBN: 978-3-11-047879-2

Verlag: De Gruyter

Erscheinungstermin: 11.09.2017

Sprache(n): Englisch

Auflage: 1. Auflage 2017

Produktform: Gebunden

Gewicht: 455 g

Seiten: 144

Format (B x H): 175 x 246 mm

