

# Algebraic Structures II

This is a second module in algebraic structures, covering group theory. There will be abstract thinking and proofs but also an emphasis on examples. The module includes the basics of group actions, finite  $p$ -groups, Sylow theorems and their applications, and the Jordan-Hölder theorem. Some of the ideas in group theory are parallel to those first encountered for rings in Algebraic Structures I.

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View Online



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@book{Cameron, Peter J._2008, address={ New York }, edition={ 2nd ed },
title={ Introduction to algebra }, volume={ Oxford mathematics },
url={ http://ezproxy.library.qmul.ac.uk/login?url=http://www.vlebooks.com/vleweb/product/
openreader?id=QMUL&isbn=9780191566226&uid=^u }, publisher={ Oxford University
Press }, author={ Cameron, Peter J. }, year={ 2008 } }
```

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@book{Ledermann, Walter_Weir, Alan J._1996, address={ Harlow }, edition={ 2nd ed },
title={ Introduction to group theory }, volume={ Longman mathematics series },
publisher={ Longman }, author={ Ledermann, Walter and Weir, Alan J. }, year={ 1996 } }
```