CHAPTER 1

Introduction

The main purpose of this book is to record the current state of my research. The book is however written in such a way that it can be used as a textbook for studying my research.

For the latest version of this file, related materials, articles, research questions, and erratum consult the Web page of the author of the book:

http://www.mathematics21.org/algebraic-general-topology.html

1.1. License and editing

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You can create your own copy of LaTeX source of the book and edit it (to correct errors, add new results, generalize existing results, enhance readability). The editable source of the book is presented at

https://bitbucket.org/portonv/algebraic-general-topology

Please consider reviewing this book at

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If you find any error (or some improvement idea), please report in our bug tracker:

https://bitbucket.org/portonv/algebraic-general-topology/issues

1.2. Intended audience

This book is suitable for any math student as well as for researchers.

To make this book be understandable even for first grade students, I made a chapter about basic concepts (posets, lattices, topological spaces, etc.), which an already knowledgeable person may skip reading. It is assumed that the reader knows basic set theory.

But it is also valuable for mature researchers, as it contains much original research which you could not find in any other source except of my work.

Knowledge of the basic set theory is expected from the reader.

Despite that this book presents new research, it is well structured and is suitable to be used as a textbook for a college course.

Your comments about this book are welcome to the email porton@narod.ru.

1.3. Reading Order

If you know basic order and lattice theory (including Galois connections and brouwerian lattices) and basics of category theory, you may skip reading the chapter "Common knowledge, part 1".

You are recommended to read the rest of this book by the order.