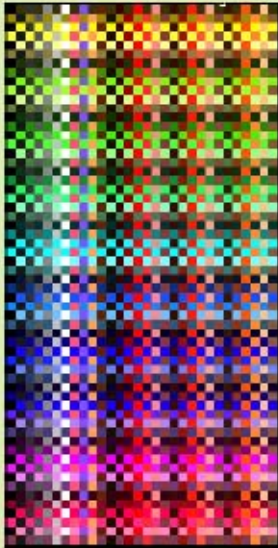# Mathematical and Computational Topics in Weaving

Ralph E. Griswold

## Mathematical and Computational Topics in Weaving

Over a period of years, I've written a variety of article related to the use of elementary mathematics and computation in weaving.

Years ago — more than I'm comfortable with admitting — I decided it would be worthwhile to bring these articles together in a "book". The quotation marks indicate that it might not be a book in the ordinary sense. In any event, it would be published on the Web, free to all.

The problem I had was how to put it all together and have a sensible, coherent result. I've not completely resolved the problem, but I've made progress and the results, with all their flaws, are now available in draft form.

The progress toward a book has largely been the result of encouragement and participation by two skilled weavers, Ruth Blau and Marg Coe. My longtime friend and colleague, Gregg Townsend, has provided invaluable help with the mathematical and computational aspects of the book. When the books is better developed, more detailed and appropriate acknowledgments to them and the many others who helped over the years will be forthcoming.

As to the draft status of the book, some sections are well developed and in penultimate form. Others range from "okay" to downright awful. There are many known errors remaining to be corrected. And many sections are missing. Most noticeably, the "connective tissue" to bring it all together is largely lacking.

As a work in progress, changes will occur frequently and not be specifically announced unless there is a major change.

Comments, notes of errors, and so forth are welcome. But understand that it may take some time to deal with them. Please resist the urge to make suggestions for major changes to the book. I have neither the time nor the energy for these, however meritorious they may be.

The book is available through links to PDFs. See the table of contents that follows. Some links lead directly to PDFs. The links are active; you can just click on them (if this doesn't work, let me know and I'll fix it). Others lead to other links. The absence of a link indicates the section has not been written or is too incomplete to include. Pleaase let me know of bad links.

Navigating is not easy. My priorities are in completing the book, not making it more easily accessible in draft form. I hope, nonetheless, that what's there will be interesting and useful.

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