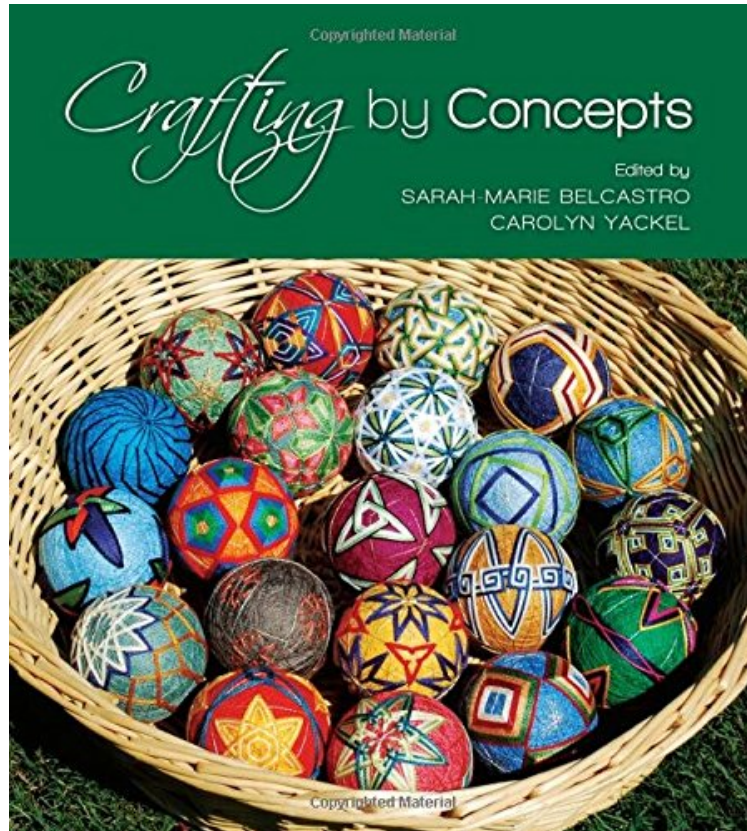


## Crafting by Concepts: Fiber Arts and Mathematics

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**From A K Peters/CRC Press : Crafting by Concepts: Fiber Arts and Mathematics** before purchasing it in order to gage whether or not it would be worth my time, and all praised Crafting by Concepts: Fiber Arts and Mathematics:

4 of 4 people found the following review helpful. Perfect for my geeky girl crafterBy C. EimerI got this book and Making Mathematics with Needlework for my daughter's college graduation gift. She adores both mathematics and crafting and squealed with joy when she opened the box. Even if she never actually does any of the projects in the book, she is translating the concepts into what she \*does\* craft: knitted lace. I'd recommend this book for people who love crafts and mathematics and who have the background in reading technical papers.10 of 10 people found the following review helpful. Crafting by ConceptsBy HerbertCrafting by Concepts was purchased as a gift for my wife. One of her hobbies is knitting crocheting. Upon receiving this book, she has thanked me several times for the gift. She knits a lot of different items and likes to experiment with different techniques and this book appears to have broadened that window of creativity. She likes math and enjoys its applications.

From the editors of the popular Making Mathematics with Needlework, this book presents projects that highlight the relationship between types of needlework and mathematics. Chapters start with accessible overviews presenting the interplay between mathematical concepts and craft expressions. Following sections explain the mathematics in more

detail, and provide suggestions for classroom activities. Each chapter ends with specific crafting instructions. Types of needlework included are knitting, crochet, needlepoint, cross-stitch, quilting, temari balls, beading, tatting, and string art. Instructions are written as ordinary patterns, so the formatting and language will be familiar to crafters.

The beauty of the visual patterns of mathematics is highlighted in this engaging book. The mathematics is carefully laid out, but following every detail of the mathematics is not necessary to create the patterns of the crafts projects presented. Excellent photographs throughout amply illustrate the use of mathematics. I highly recommend this book to teachers looking for beautiful projects for their students or to anyone who loves or is curious about circles, spirals, helixes, cross-caps, fractals, diaper patterns, symmetry groups, squaring the rectangle, and tiling spheres or the plane. Marcia Weller Weinhold, *Mathematics Teacher*, November 2012 There is something in this book for everyone from crafters to mathematicians to educators and students. This book has a lot to offer for mathematicians and non-mathematicians, presented in a beautifully illustrated and well-organized volume. *L'Enseignement Mathématique* (2) 57, 2011 If *Crafting by Concepts* does nothing else, it should help non-math-geek knitters to understand there's nothing to fear in the typical math of a knitting pattern. It also illustrates that a little mystery can be a lot of fun. For knitters who are into mathematical knitting, this book offers a lot of interesting things to think about. Crafty math teachers will enjoy the teaching suggestions that will allow them to use these projects and concepts in the classroom, hopefully bringing up the next generation of crafty mathematicians. And these projects take geek craft to a whole new level, which is pretty cool. Sarah E. White, *About.com Knitting* I stumbled over this book and simply had to buy it. The authors' interest is in linking mathematics and craft. Cally Booker, chairman of the *Journal for Weavers, Spinners and Dyers*, on her blog, August 2011 The editors have collected nine projects from various authors and have presented them attractively in this beautiful book. The book is wide-ranging, covering many mathematical topics and many craft ideas. This book would be a great present for a mathematician interested in craft or a craft enthusiast open to thinking about mathematics. Vicky Neale, *Plus magazine*, August 2011 Fiberarts and mathematics in a marvelous union to not just create but to understand applications in Temari, Quilting, Knitting and ever cross stitch. *Lacis Tools Materials* From the Author Gentle reader, we and the authors have endeavored to maintain a level of accessibility that will allow any reader to enjoy portions of the book. We do encourage you to stretch yourself by trying a new craft and learning some mathematics that is new to you (or new to the world). As you read and experiment more, you will appreciate the connections between the doing and learning of mathematics as and through craft. *Crafting by Concepts* has been edited, indeed curated, to address many different audiences. We hope you find some part of this book that seems like it was written just for you. From the *Inside Flap* Building on the success of the popular collection *Making Mathematics with Needlework*, mathematicians and crafters Sarah-Marie Belcastro and Carolyn Yackel present this colorful and varied collection of fiber art project instructions and mathematical explorations. There is something in this book for everyone from crafters to mathematicians to educators and students. Each chapter presents an accessible overview of the mathematics related to its craft project(s), as well as detailed instructions for the project. Further detailed discussions of the mathematics are also included, as well as suggestions for how to use the material in educational settings of all levels. This book has a lot to offer for mathematicians and non-mathematicians, presented in a beautifully illustrated and well-organized volume.