

SECOND
EDITION

Crocheting Adventures with Hyperbolic Planes

Tactile Mathematics,
Art and Craft
for all to Explore

Daina Taimina



CRC Press
Taylor & Francis Group

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Crafting Conundrums Ellie Baker, Susan Goldstine, 2016-04-19 Designed for crafters puzzle lovers and pattern designers alike Crafting Conundrums Puzzles and Patterns for the Bead Crochet Artist provides methods challenges and patterns that offer a springboard for creative exploration All are illustrated with beautiful color diagrams and photographs Experienced bead crochet crafters looking for a proj

The Fine Art of Crochet Gwen Blakley Kinsler, 2013-06-17 Fiber artists around the world have embraced crochet as an inventive medium like never before Expanding on the creative possibilities and using sculpture immense site specific installations performance and mixed media objects they have used crochet techniques to explore feminine craft and heritage dissect gender codes and show the primal creative expression represented by crochet In

The Fine Art of Crochet author Gwen Blakley Kinsler looks at the art crochet movement from 1915 onward to the crochet revolution of the 1960s profiling twenty of the most innovative practitioners working today Offering insight to those who may not have otherwise thought to go beyond the purely practical aspect of crochet she features internationally known artists such as Arline Fisch Leslie Pontz Carol Hummel Tracy Krumm Bonnie Meltzer and Soonran Youn Gwen Blakley Kinsler the founder of the Crochet Guild of America and a fiber art practitioner in her own right examines the concepts and diverse works of these artists in whose hands the magic of crochet creates cutting edge art for the twenty first century Each artist approaches the medium with wonder and the desire to explore its full potential This study and collection of images presents an exploration of the diverse styles unusual shapes and exquisite textures that characterize crocheted art today **Crafting**

Textiles in the Digital Age Nithikul Nimkulrat, Faith Kane, Kerry Walton, 2016-09-08 In an era of increasingly available digital resources many textile designers and makers find themselves at an interesting juncture between traditional craft processes and newer digital technologies Highly specialized craft design practitioners may now elect to make use of digital processes in their work but often choose not to abandon craft skills fundamental to their practice and aim to balance the complex connection between craft and digital processes The essays collected here consider this transition from the viewpoint of aesthetic opportunity arising in the textile designer's hands on experimentation with material and digital technologies available in the present Craft provides the foundations for thinking within the design and production of textiles and as such may provide some clues in the transition to creative and thoughtful use of current and future digital technologies Within the framework of current challenges relating to sustainable development globalization and economic constraints it is important to interrogate and question how we might go about using established and emerging technologies in textiles in a positive manner **Toward a New Culture of the Material** Frank Bauer, Yoonha Kim, Sabine Marienberg, Wolfgang

Schäffner, 2024-09-03 What happens when we begin treating multi stable ambivalent and adaptive behaviors of active matter as a formative principle The contributions of this volume investigate the potential of the processual and untamable ranging from microbial co designing morphogenetic experimentation and atmospheric creation to plasticity and liveliness in architecture history of art and scientific concepts Walking the line between analog and digital forms the 19 perspectives from the Cluster of Excellence Matters of Activity not only cross disciplinary and methodological boundaries but also aim at installing a new material paradigm between the epistemic cultures of sciences humanities and design Investigating a new culture of the material Interdisciplinary views on active structures adaptive materials and sustainability **Analyzing Art and Aesthetics** Anne Collins Goodyear, Margaret A. Weitekamp, 2013-10-30 This ninth volume of the Artefacts series explores how artists have responded to developments in science and technology past and present Rather than limiting the discussion to art alone editors Anne Collins Goodyear and Margaret Weitekamp also asked contributors to consider aesthetics the scholarly consideration of sensory responses to cultural objects When considered as aesthetic objects how do

scientific instruments or technological innovations reflect and embody culturally grounded assessments about appearance feel and use And when these objects become museum artifacts what aesthetic factors affect their exhibition Contributors found answers in the material objects themselves This volume reconsiders how science technology art and aesthetics impact one another

Language and tool support for 3D crochet patterns Klara Seitz,Jens Lincke,Patrick Rein,Robert Hirschfeld,2021-09-09 Crochet is a popular handcraft all over the world While other techniques such as knitting or weaving have received technical support over the years through machines crochet is still a purely manual craft Not just the act of crochet itself is manual but also the process of creating instructions for new crochet patterns which is barely supported by domain specific digital solutions This leads to unstructured and often also ambiguous and erroneous pattern instructions In this report we propose a concept to digitally represent crochet patterns This format incorporates crochet techniques which allows domain specific support for crochet pattern designers during the pattern creation and instruction writing process As contributions we present a thorough domain analysis the concept of a graph structure used as domain specific language to specify crochet patterns and a prototype of a projectional editor using the graph as representation format of patterns and a diagramming system to visualize them in 2D and 3D By analyzing the domain we learned about crochet techniques and pain points of designers in their pattern creation workflow These insights are the basis on which we defined the pattern representation In order to evaluate our concept we built a prototype by which the feasibility of the concept is shown and we tested the software with professional crochet designers who approved of the concept

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