

Crocheting Adventures with Hyperbolic Planes

Daina Taimiņa



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Crocheting Adventures With Hyperbolic Planes

Catherine A. Gorini



Crocheting Adventures With Hyperbolic Planes:

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Crocheting Adventures with Hyperbolic Planes Daina Taimina, 2018-02-19 Winner Euler Book Prize awarded by the Mathematical Association of America With over 200 full color photographs this non traditional tactile introduction to non Euclidean geometries also covers early development of geometry and connections between geometry art nature and sciences For the crafter or would be crafter there are detailed instructions for how to crochet various geometric models and how to use them in explorations New to the 2nd Edition Daina Taimina discusses her own adventures with the hyperbolic planes as well as the experiences of some of her readers Includes recent applications of hyperbolic geometry such as medicine architecture fashion quantum computing

Geometry and Symmetry L. Christine Kinsey, Teresa E. Moore, Efstratios Prassidis, 2010-04-19 This new book for mathematics and mathematics education majors helps students gain an appreciation of geometry and its importance in the history and development of mathematics The material is presented in three parts The first is devoted to a rigorous introduction of Euclidean geometry the second covers various noneuclidean geometries and the last part delves into symmetry and polyhedra Historical contexts accompany each topic Exercises and activities are interwoven with the text to enable the students to explore geometry Some of the activities take advantage of geometric software so students in particular future teachers gain a better understanding of its capabilities Others explore the construction of simple models or use

manipulatives allowing students to experience the hands on creative side of mathematics While this text contains a rigorous mathematical presentation key design features and activities allow it to be used successfully in mathematics for teachers courses as well

The Big Bang of Numbers Manil Suri, 2022-09-20 Finalist for the PEN E O Wilson Literary Science Writing Award What a fun escape Reminds me of math books I read when I was coming of age Neil deGrasse Tyson An exhilarating Steven Strogatz tour through the fundamental mathematical concepts from arithmetic to infinity that form the building blocks of our universe Our universe has multiple origin stories from religious creation myths to the Big Bang of scientists But if we leave those behind and start from nothing no matter no cosmos not even empty space could we create a universe using only math Irreverent richly illustrated and boundlessly creative *The Big Bang of Numbers* invites us to try In this new mathematical origin story mathematician and novelist Manil Suri creates a natural progression of ideas needed to design our world starting with numbers and continuing through geometry algebra and beyond He reveals the secret lives of real and imaginary numbers teaches them to play abstract games with real world applications discovers unexpected patterns that connect humble lifeforms to enormous galaxies and explores mathematical underpinnings for randomness and beauty With evocative examples ranging from multidimensional crochet to the Mona Lisa's asymmetrical smile as well as ingenious storytelling that helps illuminate complex concepts like infinity and relativity *The Big Bang of Numbers* charts a playful inventive course to existence Mathematics Suri shows might best be understood not as something we invent to explain Nature but as the source of all creation whose directives Nature tries to obey as best she can Offering both striking new perspectives for math aficionados and an accessible introduction for anyone daunted by calculation *The Big Bang of Numbers* proves that we can all fall in love with math

The Routledge Companion to Biology in Art and Architecture Charissa Terranova, Meredith Tromble, 2016-08-12 The Routledge Companion to Biology in Art and Architecture collects thirty essays from a transdisciplinary array of experts on biology in art and architecture The book presents a diversity of hybrid art and science thinking revealing how science and culture are interwoven The book situates bioart and bioarchitecture within an expanded field of biology in art architecture and design It proposes an emergent field of biocreativity and outlines its historical and theoretical foundations from the perspective of artists architects designers scientists historians and theoreticians Includes over 150 black and white images

, *The Fine Art of Crochet* Gwen Blakley Kinsler, 2013-06 Gwen Blakley Kinsler looks at the art crochet movement from 1915 onward to the Crochet Revolution of the 1960s by profiling twenty of the most innovative practitioners working today The works featured in this book represent the diverse styles unusual shapes and exquisite textures that characterize today's crocheted art

The Best Writing on Mathematics 2021 Mircea Pitici, 2022-07-19 The year's finest mathematical writing from around the world This annual anthology brings together the year's finest mathematics writing from around the world and you don't need to be a mathematician to enjoy the pieces collected here These essays from leading names and fresh new voices delve into the history philosophy teaching and

everyday aspects of math offering surprising insights into its nature meaning and practice and taking readers behind the scenes of today s hottest mathematical debates Here Viktor Bl sj gives a brief history of lockdown mathematics Yelda Nasifoglu decodes the politics of a seventeenth century play in which the characters are geometric shapes and Andrew Lewis Pye explains the basic algorithmic rules and computational procedures behind cryptocurrencies In other essays Terence Tao candidly recalls the adventures and misadventures of growing up to become a leading mathematician Natalie Wolchover shows how old math gives new clues about whether time really flows and David Hand discusses the problem of dark data information that is missing or ignored And there is much much more **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 **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 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 *Transforming Learning Through Tangible Instruction* Sarah Kuhn, 2021-07-12

Transforming Learning Through Tangible Instruction offers a transformative student centered approach to higher education pedagogy that integrates embodied cognition into classroom practice Evidence across disciplines makes clear that people learn with their bodies as well as their brains but no previous book has provided evidence based guidance for adopting and refining its practice in colleges and universities Collecting findings from cognitive science educational neuroscience learning theories and beyond this volume s unique approach radical yet practical effective yet low cost will have profound implications for higher education faculty and administrators engaged in teaching and learning Seven concise chapters explore how physical objects hands on making active construction and other elements of body and environment can enhance comprehension memory and individual and collaborative learning *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 **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 **Power in Numbers** Talithia Williams, 2018-04-10 From rocket scientists to code breakers fascinating stories of women who overcame obstacles shattered stereotypes and pursued their passion for math Notices of the American Mathematical Society With more than 200 photos and original interviews with several of the amazing women covered *Power in Numbers* *The Rebel Women of Mathematics* is a full color volume that puts a spotlight on the influence of women on the development of

mathematics over the last two millennia Each biography reveals the life of a different female mathematician from her childhood and early influences to the challenges she faced and the great achievements she made in spite of them Learn how After her father terminated her math lessons Sofia Kovalevskaya snuck algebra books into her bed to read at night Emmy Noether became an invaluable resource to Albert Einstein while she was in the Navy Native American rocket scientist Mary Golda Ross developed designs for fighter jets and missiles in a top secret unit Katherine Johnson s life or death calculations at NASA meant that astronauts such as Alan Shepard and John Glenn made it home alive Shakuntala Devi multiplied massive numbers in her head so her family could eat at night Pamela Harris proved her school counselors wrong when they told her she would only succeed as a bilingual secretary Carla Cotwright Williams began her life in the dangerous streets of South Central Los Angeles before skyrocketing to a powerful career with the Department of Defense in Washington DC These women are a diverse group but their stories have one thing in common At some point on their journeys someone believed in them and made them think the impossible was perhaps not so impossible A quick read full of dramatic stories and eye catching illustrations MAA Reviews I found myself marveling at the personal anecdotes and quotes throughout the book Notices of the American Mathematical Society [Geometry for the Artist](#) Catherine A. Gorini,2023-05-26 Geometry for the Artist is based on a course of the same name which started in the 1980s at Maharishi International University It is aimed both at artists willing to dive deeper into geometry and at mathematicians open to learning about applications of mathematics in art The book includes topics such as perspective symmetry topology fractals curves surfaces and more A key part of the book s approach is the analysis of art from a geometric point of view looking at examples of how artists use each new topic In addition exercises encourage students to experiment in their own work with the new ideas presented in each chapter This book is an exceptional resource for students in a general education mathematics course or teacher education geometry course and since many assignments involve writing about art this text is ideal for a writing intensive course Moreover this book will be enjoyed by anyone with an interest in connections between mathematics and art Features Abundant examples of artwork displayed in full color Suitable as a textbook for a general education mathematics course or teacher education geometry course Designed to be enjoyed by both artists and mathematicians **The Art-Science Symbiosis** Marcelo Velasco,Ignacio Nieto,2024-06-20 This book delves into the long standing human aspiration to combine art and science In six chapters The Art Science Symbiosis outlines new approaches to understand current scientific practice in general and art science in particular showcasing how contemporary art can provide a unique perspective on the meaning and potential of collaboration With more than a hundred full colour images The Art Science Symbiosis serves as a resource for researchers interested in the art science integration as well as a general reference for interdisciplinary and transdisciplinary work In the book twenty two works have been selected based on their inherent merits and for the emergent knowledge that their art science integration produces These works have sparked novel questions ideas and curiosity amongst

scientists and artists alike which we hope will promote further dialogue not only amongst them but with the general public inspiring a process that may lead to diverse complex and promising results with real world consequences we have as yet to uncover The Key messages of the book are Contemporary art is a powerful space of dialogue between science and the public Interdisciplinary work based on symmetrical collaboration promotes groundbreaking results Artistic inquiry can lead to new understanding of scientific exploration Art science practice could be started using a simple methodology

Irreducibility and Computational Equivalence Hector Zenil, 2012-12-25 It is clear that computation is playing an increasingly prominent role in the development of mathematics as well as in the natural and social sciences The work of Stephen Wolfram over the last several decades has been a salient part in this phenomenon helping founding the field of Complex Systems with many of his constructs and ideas incorporated in his book A New Kind of Science ANKS becoming part of the scientific discourse and general academic knowledge from the now established Elementary Cellular Automata to the unconventional concept of mining the Computational Universe from today's widespread Wolfram's Behavioural Classification to his principles of Irreducibility and Computational Equivalence This volume with a Foreword by Gregory Chaitin and an Afterword by Cris Calude covers these and other topics related to or motivated by Wolfram's seminal ideas reporting on research undertaken in the decade following the publication of Wolfram's NKS book Featuring 39 authors its 23 contributions are organized into seven parts Mechanisms in Programs Nature Systems Based on Numbers Simple Programs Social and Biological Systems Technology Fundamental Physics The Behavior of Systems the Notion of Computation Irreducibility Computational Equivalence Reflections and Philosophical Implications

Introduction to Cultural Mathematics Thomas E. Gilsdorf, 2012-04-17 INTRODUCTION TO CULTURAL MATHEMATICS Challenges readers to think creatively about mathematics and ponder its role in their own daily lives Cultural mathematics or ethnomathematics as it is also known studies the relationship between mathematics and culture with the ultimate goal of contributing to an appreciation of the connection between the two Introduction to Cultural Mathematics With Case Studies in the Otomies and Incas integrates both theoretical and applied aspects of the topic promotes discussions on the development of mathematical concepts and provides a comprehensive reference for teaching and learning about multicultural mathematical practices This illuminating book provides a nontraditional evidence based approach to mathematics that promotes diversity and respect for cultural heritages Part One covers such major concepts as cultural aspects of mathematics numeration and number symbols kinship relations art and decoration games divination and calendars Part Two takes those concepts and applies them to fascinating case studies of both the Otomies of Central Mexico and the Incas of South America Throughout the book numerous illustrations examples and motivational questions promote an interactive understanding of the topic Each chapter begins with questions that encourage a cooperative inquiry based approach to learning and concludes with a series of exercises that allow readers to test their understanding of the presented material Introduction to Cultural Mathematics is an ideal book for

courses on cultural mathematics the history of mathematics and cultural studies The book is also a valuable resource and reference for anyone interested in the connections between mathematics culture anthropology and history

Decoding **Crocheting Adventures With Hyperbolic Planes**: Revealing the Captivating Potential of Verbal Expression

In a time characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its ability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Crocheting Adventures With Hyperbolic Planes**," a mesmerizing literary creation penned by a celebrated wordsmith, readers attempt an enlightening odyssey, unraveling the intricate significance of language and its enduring impact on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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Crocheting Adventures With Hyperbolic Planes Introduction

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