

Surfaces Explorations With Sliceforms

SurfacesSliceforms99 Variations on a ProofSurfacesThe Mathematics TeacherCreativity & CognitionSliceformsSliceforms John Sharp Philip Ording
John Sharp Taylor & Francis Group Timothy Watson

Surfaces Sliceforms 99 Variations on a Proof Surfaces The Mathematics Teacher Creativity & Cognition Sliceforms Sliceforms *John Sharp Philip
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the innovative use of sliceforms to explore the properties of surfaces is produced in a systematic way providing the tools to build surfaces from paper to explore their mathematics the extensive commentary explains the mathematics behind particular surfaces an exercise in practical geometry that will stimulate ideas for the student and the enthusiast as well as having practical applications in engineering and architecture

sliceform modelling is a technique which lies happily on the borders between art and mathematics the models are made from intersecting sets of parallel planes which slot together in a clever way to generate interesting three dimensional surfaces in the fully open position the planes are at right angles and the surfaces are correctly defined but all the models fold flat in two different ways making them easy to store until they are wanted next time when popped up the play of light and shade on the planes creates objects of great beauty the book includes a varied collection of eight models to cut out and make and a detailed explanation of how to generate the slices for models of your own see also surfaces explorations with sliceforms for more detailed explanations and more templates

an exploration of mathematical style through 99 different proofs of the same theorem this book offers a multifaceted perspective on mathematics by demonstrating 99 different proofs of the same theorem each chapter solves an otherwise unremarkable equation in distinct historical formal and imaginative styles that range from medieval topological and doggerel to chromatic electrostatic and psychedelic with a rare blend of humor and scholarly aplomb philip ording weaves these variations into an accessible and wide ranging narrative on the nature and practice of mathematics inspired by the experiments of the paris based writing group known as the oulipo whose members included raymond queneau italo calvino and marcel duchamp ording explores new ways to examine the aesthetic possibilities of mathematical activity 99 variations on a proof is a mathematical take on queneau s exercises in style a collection of 99 retellings of the same story and it draws unexpected connections to everything from mysticism and technology to architecture and sign language through diagrams found material and other imagery ording

illustrates the flexibility and creative potential of mathematics despite its reputation for precision and rigor readers will gain not only a bird's eye view of the discipline and its major branches but also new insights into its historical philosophical and cultural nuances readers no matter their level of expertise will discover in these proofs and accompanying commentary surprising new aspects of the mathematical landscape

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