

Sliceforms



John Sharp

Sliceforms Mathematical Models From Paper Sections

CH Cherryholmes



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Sliceforms John Sharp, 1995 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 **The Mathematics Teacher**

, 2006 El-Hi Textbooks & Serials in Print, 2000 , 2000 Mathematical Models Henry Martyn Cundy, A. P. Rollett, 1981 This is the classic book of detailed instructions for making a wide variety of mathematical models of all kinds Complete nets are given for all regular Archimedean and stellated polyhedra together with a number of interesting compounds There are sections on paper folding dissections curve stitching linkages the drawing of loci and envelopes and the construction of plane tessellations The volume is fully illustrated with diagrams and photographs of models in paper and other materials and all have been successfully made and tested Note for books that provide the nets and instructions to make various solids look at *Make Shapes 1 Make Shapes 2 and Paper Polyhedra in Colour* Cundy and Rollett provides both a wider range of nets but not in ready made form *Mathematical Models* Henry Martyn Cundy, Arthur Percy Rollett, 1972 *Mathematical Models* Arnold Emch, 1920 **Mathematical Models** Henry Martyn Cundy, 1954 Mathematical Models Arnold Emch, 1925

Mathematical Models , 1993 **Mathematical Models** Gerd Fischer, 2017-09-04 This book presents beautiful photos of mathematical models of geometric surfaces made from a variety of materials including plaster metal paper wood and string The construction of these models at the time of Felix Klein and others was not an end in itself but was accompanied by mathematical research especially in the field of algebraic geometry The models were used to illustrate the mathematical objects defined by abstract formulas either as equations or parameterizations In the second part of the book the models are explained by experts in the field of geometry This book is a reprint thirty years after the original publication in 1986 with a new preface by Gert Martin Greuel The models have a timeless appeal and a historical value *Mathematical Models* H. Martyn Cundy, Arthur P. Rollett, 1971 **Mathematical Models** Henry M. Cundy, 1962 **Make Shapes** Gerald Jenkins, 1990 Mathematical Models, Series I-IV. Arnold Emch, 1920 **Mathematical Models** Kimball, 2001-07-01

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