

Summary

The previous pages have taken the reader through the development of the basic pattern shapes of "Little Boy." There are many other details that still need to be resolved; the development of the internal connectors, the placement of the glue tabs, etc. (Refer to the printed model for my solutions to these questions.) There are also other issues that this article has not approached, such as the consideration of card stock thickness and its effect on the developments' calculations. The mastery of mathematical formulas is merely the first step. After design, the pieces need to be cut out, tested, and amended where necessary. Future articles will address the points mentioned above.

"Fat Man"

A blueprint drawing of the atomic weapon "Fat Man" is printed on the reverse of this page. Readers are encouraged to test their skills by creating their own model. An interactive QuickTime video of "Fat Man" is available on the Internet at:

<http://www.cnn.com/SPECIALS/cold.war/experience/the.bomb/history.science/fatman.html>

This helpful image can be rotated so that the builder can see the configuration of the tail fins.

Information on "Fat Man" and "Little Boy" may be found on the Internet at:

<http://nuketesting.enviroweb.org/hew/Usa/Med/Lbfm.html>

Bibliography

Any general text on drafting, mechanical, technical, or engineering drawing will include a chapter on development. Other necessary topics include geometrical constructions, multiview projections, auxiliary views and rotation. I've examined more than a dozen drafting texts, and I find the following to be the clearest and most thorough:

Technical Drawing

(several editions available)

Giesecke, Mitchell, Spencer and Hill
The Macmillan Company

I found a copy at our local library, and purchased my own for one dollar on the Internet at the used bookseller:

bookfinder.com

Another interesting book, specifically written for the card model designer, is the German publication:

Abwicklung und Co.

Die Geometrie für den Kartonmodellbauer
Dietrich Schmitt

The author has summarized many sheet metal layout methods of particular interest to the card modeler. He also includes a section on creating measured drawings from three-view drawings specifically for fuselage and hull development. (Text in German.) This privately published booklet is available from:

Dietrich Schmitt
Mark -Twain - Str. 19
27753 Delmenhorst, Germany

Write the author for purchasing details.

Finally

I welcome all comments, corrections and suggestions to this article. I also look forward to seeing your designs for "Fat Man."

Kell Black

