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Shannon R Overbay* (overbay@gonzaga.edu). *Generalizations of Book Embeddings to Books with Modified Pages and Spines*. Preliminary report.

A standard n -book is a line in 3-space (the spine), together with n half-planes (the pages), joined together at the spine. A graph is embedded in a book by ordering the vertices along the spine and placing the edges within the pages of the book so that no two edges cross each other or the spine. The book-thickness of a graph, G , is the smallest number of pages needed to embed G in a book. In this paper, we consider modifications of the standard book. The first modification permits edges to wrap from one side of the page to the other and the second allows the spine to be a tree. We present optimal edge bounds for these modified books. (Received September 17, 2012)