

1096-C5-2660      **Rebecca E. Field\*** ([fieldre@jmu.edu](mailto:fieldre@jmu.edu)), MSC 1911, James Madison University, Harrisonburg,  
VA 22802. *Stumbling towards a pattern: how to make pants.*

Engineering a pair of pants is far more difficult than it sounds. We will start with the most naive approach and see how the constraints of wearability and the shape of the human body change how we see the problem. The topology of the situation is simple, but the geometry gets quite complicated when we have not only negative curvature, but curvature varying from strongly negative to weakly positive. (Received September 17, 2013)