Maalee N Almheidat* (almhe1mn@cmich.edu), 1506 E Gaylord St, Mount Pleasant, MI 48858, and Felix Famoye and Carl Lee. Some generalized families of Weibull distribution.

In this paper, six new families of T-Weibull\(Y\) distributions arising from the quantile function of a random variable \(Y\) are introduced to generalize Weibull distribution. Some of their properties are studied. Different examples of the T-Weibull\(Y\) distributions are presented and the flexibility of these examples are illustrated by some applications to real life data sets. (Received January 20, 2015)