Jeffrey S. Case* (jscase@psu.edu). The $Q'$-curvature in CR geometry.

The $Q'$-curvature is a pseudohermitian invariant of a strictly pseudoconvex CR manifold which behaves nicely with respect to change of contact form; for example, the total $Q'$-curvature is a CR invariant. I will describe these properties and some classification results involving the total $Q'$-curvature in dimensions three and five. This talk is based on joint works with Paul Yang and Rod Gover. (Received February 04, 2016)