Application of a graphical scheme for representing the mode of action of products for identification of key characteristics

In order to identify where to focus the tolerance analysis during the product development process, it is beneficial to find the key characteristics. However, for highly integrated, multiple-state products, product designers have difficulties in efficiently communicating and tracking the complex mode of action. As a consequence, not all relevant key characteristics are found in the initial screenings. We propose a systematic graphical representation scheme for modelling the mode of action of products, and we apply this scheme on a case example, in order to illustrate its applicability and its usefulness for the identification of key characteristics.