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# A modified economic-statistical design of the $T^2$ control chart with variable sample sizes and control limits

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## Abstract

Recent studies have shown that using variable sampling size and control limits (VSSC) schemes result in charts with more statistical power than variable sampling size (VSS) when detecting small to moderate shifts in the process mean vector. This paper presents an economic-statistical design (ESD) of the VSSC  $T^2$  control chart using the

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