

Wiyada Tanvatnagul

Department of Statistics, Faculty of Sciences, Chiangmai University.

In industry, machines are used to produce many products, often produced in varying lot sizes. To assure that the products conform to a standard, a process which should be done easily, fast and with precision, it is often necessary to have computers to control the quality by means of statistical methods. My package for use in quality control has two parts :

1. the first part has basic quality control applications consisting of the inspection of each product during the production process, finding the control limits and plotting the control charts for suitable data. Specifically, these are

- Control charts for variables : individual chart, average chart, range chart and standard deviation chart.

- Control charts for attribute data : fraction and number of defective charts.

2. the second part has acceptance sampling applications consisting of the inspection of a sample of the final product using probabilities associated with the sampling plan and the calculated statistical values that are necessary in inspection and OC curve computation. This is necessary to separate good products from bad products.

The package can be used easily by following the commands on the screen. Output is very fast, so that decision making to solve problems in quality control can be done very fast, economically and efficiently.