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MCE 331 – Manufacturing Processes

Quality Control

c Chart

Quality characteristic of interest is the number of defects in the sample plotted over time

- Example: The number of quality defects found during final inspection on 100 automobiles
- c chart is based on the Poisson distribution, where c = parameter representing the number of events occurring within a defined sample space

Interpreting the Charts

- When control charts are used to monitor production quality, random samples are drawn from the process of the same size n used to construct the charts
- For “x-bar” and R charts, the $\bar{X}$ and R values of the measured characteristic are plotted on the control chart
- For the p chart and c chart, the proportions of defects or count of defects are plotted
- By convention, the points are usually connected