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Maths-IV - Numerical and Statistical Methods for Computer ...

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6.3 Single Step and Multi-Step Methods 480
6.4 Comparison of Single-Step and Multi-Step Methods 480
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Numerical Methods of Solution of O.D.E. 480 6.6 Picard's Method of Successive Approximations 481

COMPUTER-BASED NUMERICAL STATISTICAL TECHNIQUES

Descriptive statistics are tabular, graphical, and numerical methods by which essential features of a sample can be described. Although these same methods can be used to describe entire populations, they are more often applied to samples in order to capture population characteristics by inference.

STATISTICAL METHODS

When working with statistics, it's important to recognize the different types of data: numerical (discrete and continuous), categorical, and ordinal. Data are the actual pieces of information that you collect through your study. For example, if you ask five of your friends how many pets they own, they might

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give you the following data: 0, [...]

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This paper presents a numerical simulation method to determine the surface morphology characteristics of metallic materials. First, a surface profiler (NV5000 5022s) was used to measure the surface, and the morphology data thereof were characterized. Second, fractal theory was used to simulate the surface profile for different fractal dimensions D and scale coefficients G , and statistical ...

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