

# Sample Document Using the Glossaries Package With Xindy

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## **1 Karl Friedrich Gauss**

This is a section on Karl Friedrich Gauss. This section spans several pages.

This page talks about Gaussian integers. Since it's the principle definition, the user-defined hyperbfit format is used.

The section on Gauss ends here.

## **2 Series Expansions**

This section is about series expansions. It mentions Colin Maclaurin and Brook Taylor. It also discusses Taylor's theorem which is related to the Taylor series. The Maclaurin series is a special case of the Taylor series.

## **3 Archimedes' principle**

This section discusses Archimedes' principle which was introduced by Archimedes of Syracuse.

## **4 Another section**

This section covers Ernst Mach who introduced the Mach number. It also mentions André-Marie Ampère after whom the SI unit ampere is named. It then discusses Sir Francis Galton and Thomas Robert Malthus. Finally it mentions John Loudon McAdam.

This page discusses Quinn McNemar who introduced McNemar's test and Giuseppe Peano who discovered Peano's curve.

## Glossary

### A

#### **ampere**

SI unit of electric current named after Ampère. Three

#### **Ampère, André-Marie**

French mathematician and physicist. Three, Four

#### **Archimedes' principle**

Principle that if a body is submerged in a fluid it experiences upthrust equal to the weight of the displaced fluid. Named after Archimedes. Three

#### **Archimedes of Syracuse**

Greek mathematician. Three, Four

### G

#### **Galton, Sir Francis**

English anthropologist. Three

#### **Gauss, Karl Friedrich**

German mathematician. One–Three

#### **Gaussian integer**

Complex number where both real and imaginary parts are integers. *Two*

### Mc

#### **McAdam, John Loudon**

Scottish engineer. Three

#### **Maclaurin series**

Series expansion. Three–Five, *see* Taylor's theorem

#### **Maclaurin, Colin**

Scottish mathematician best known for the Maclaurin series. Three

#### **McNemar, Quinn**

Mathematician who introduced McNemar's test. This entry has the number list suppressed.

#### **McNemar's test**

A nonparametric test introduced by McNemar in 1947. Four

## M

### **Mach number**

Ratio of the speed of a body in a fluid to the speed of sound in that fluid named after Mach. Three

### **Mach, Ernst**

Czech/Austrian physicist and philosopher. Three, Four

### **Malthus, Thomas Robert**

English mathematician, sociologist and classicist. Three

## P

### **Peano, Giuseppe**

Italian mathematician. Four, Five

### **Peano's curve**

A space-filling curve discovered by Peano. Four

## T

### **Taylor series**

Series expansion. Three, *see* Taylor's theorem

### **Taylor, Brook**

English mathematician. Three

### **Taylor's theorem**

Theorem expressing a function  $f(x)$  as the sum of a polynomial and a remainder:

$$f(x) = f(a) + f'(a)(x - a) + f''(a)(x - a)^2/2! + \cdots + R_n$$

If  $n \rightarrow \infty$  the expansion is a Taylor series and if  $a = 0$ , the series is called a Maclaurin series. Three