

Sample Document Using the Glossaries Package With Xindy

Nicola Talbot

July 17, 2015

1 Karl Friedrich Gauss

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

This paragraph has been shoved to the bottom of the page using a rule. This paragraph spans a page break for testing purposes to ensure the glossary entry

in this paragraph has the correct location. Here's the glossary entry: **Gaussian function**.

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 of Syracuse

Greek mathematician. [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](#)

G

Galton, Sir Francis

English anthropologist. [Three](#)

Gauss, Karl Friedrich

German mathematician. [One-Three](#)

Gaussian function

A function of the form:

$$f(x) = a \exp\left(-\frac{(x-b)^2}{2c^2}\right)$$

for some constants a , b and c . [Two](#)

Gaussian integer

Complex number where both real and imaginary parts are integers. [Two](#)

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](#)

Maclaurin series

Series expansion. *see* [Taylor's theorem](#), [Three](#), [Five](#)

Maclaurin, Colin

Scottish mathematician best known for the [Maclaurin series](#). [Three](#)

Malthus, Thomas Robert

English mathematician, sociologist and classicist. [Three](#)

McAdam, John Loudon

Scottish engineer. [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](#), [Five](#)

P**Peano, Giuseppe**

Italian mathematician. [Four](#), [Five](#)

Peano's curve

A space-filling curve discovered by [Peano](#). [Four](#)

T**Taylor series**

Series expansion. *see* [Taylor's theorem](#), [Three](#)

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](#)