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.
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.
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

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

Five