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# Glossary

**diagonal matrix**

matrix whose only non-zero entries are along the leading diagonal. [2.0](#), [2.1](#)

**identity matrix**

diagonal matrix with 1s along the leading diagonal. [2.1](#), [2.1](#), [2.1](#), [3.0](#)

**singular matrix**

matrix with zero determinant. [3.0](#)

# Chapter 1

## Introduction

This is a sample document illustrating the use of the `glossaries` package.

## Chapter 2

# Diagonal matrices

A **diagonal matrix** is a matrix where all elements not on the leading diagonal are zero. This is the primary definition, so an italic font is used for the page number.

## 2.1 Identity matrix

The **identity matrix** is a **diagonal matrix** whose leading diagonal elements are all equal to 1.

Here is another entry for a **diagonal matrix**. And this is the plural: **identity matrices**.

This adds an entry into the glossary with a bold number, but it doesn't create a hyperlink: identity matrix.

## Chapter 3

# Singular Matrices

A **singular matrix** is a matrix with zero determinant. **Singular matrices** are non-invertible. Possessive: a **singular matrix's** dimensions are not necessarily equal.

Another **identity matrix** entry.