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[Classical Galois Theory With Examples](#)

In mathematics, Galois theory, originally introduced by Évariste Galois, provides a connection between field theory and group theory. This connection, the fundamental theorem of Galois theory, allows reducing to group theory certain problems in field theory; this makes them simpler in some sense, and allows a better understanding.. Galois introduced the subject for studying roots of polynomials.

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Although Galois is often credited with inventing group theory and Galois theory, it seems that an Italian mathematician Paolo Ruffini (1765-1822) may have come up with many of the ideas first. Unfortunately his ideas were not taken seriously by the rest of the mathematical community at the time. There are some links at the end of this document for anyone interested in finding out more about ...

[Vector space - Wikipedia](#)

In mathematics, a finite field or Galois field (so-named in honor of Évariste Galois) is a field that contains a finite number of elements. As with any field, a finite field is a set on which the operations of multiplication, addition, subtraction and division are defined and satisfy certain basic rules. The most common examples of finite fields are given by the integers mod p when p is a ...

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The theory of groups of finite order may be said to date from the time of Cauchy. To him are due the first attempts at classification with a view to forming a theory from a number of isolated facts. Galois introduced into the theory the exceedingly important idea of a [normal] sub-group, and the corresponding division of groups into simple

[Category Theory \(Stanford Encyclopedia of Philosophy\)](#)

Examples of Abelian and Nonabelian Groups. Group Tables. Theory of Coding: Maximum-Likelihood Decoding. Chapter 4 Elementary Properties of Groups Uniqueness of Identity and Inverses. Properties of Inverses. Direct Product of Groups. Chapter 5 Subgroups Definition of Subgroup. Generators and Defining Relations. Cayley Diagrams. Center of a Group. Group Codes; Hamming Code. Chapter 6 Functions ...

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Galois Theory. 3 Units. Field of fractions, splitting fields, separability, finite fields. Galois groups, Galois correspondence, examples and applications. Prerequisite: MATH 120 and (also recommended) 113. MATH 122. Modules and Group Representations. 3 Units. Modules over PID. Tensor products over fields. Group representations and group rings. Maschke's theorem and character theory. Character ...

[Mathematics Books | Math Books - Dover Books](#)

Welcome to the LMFDB, the database of L-functions, modular forms, and related objects. These pages are intended to be a modern handbook including tables, formulas, links, and references for L-functions and their underlying objects.

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Studies mathematical theory of dynamical systems, emphasizing both discrete-time dynamics and nonlinear systems of differential equations. Topics include: chaos, fractals, attractors, bifurcations, with application to areas such as population biology, fluid dynamics and classical physics. Basic knowledge of matrix theory will be assumed. 3 or 4 ...

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