

## Here is the Title

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**Abstract.** In this paper generalizing the concept of prime, semiprime and irreducible ideals in ternary semigroups we introduce prime left, semiprime left and irreducible left ideals in ternary semigroups. We study different types of ternary semigroups by the properties of their prime left, semiprime left and irreducible left ideals. We also characterize those ternary semigroups for which each left ideal is semiprime left.

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## 1 Introduction

The following problem was first posed by L.A. Zadeh: Suppose we are given... .

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