

The main theme of this work is the Kochen-Stone inequality and its alternatives. The first chapter summarizes the Borel-Cantelli lemma and is supplemented with several examples in which the proven lemma is utilized in various ways. The second chapter focuses on the proof of the Kochen-Stone inequality itself and mentions further generalizations of the Borel-Cantelli lemma. The third chapter presents a few examples of utilizing the Kochen-Stone inequality.