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as the local lemma six standard deviations result in discrepancy theory property b and graph limits updated sections to reflect major developments on the newest topics discussions of the hypergraph container method and many new references and improved results the probabilistic method fourth edition is an ideal textbook for upper undergraduate and graduate level students majoring in mathematics computer science operations research and statistics the fourth edition is also an excellent reference for researchers and combinatorists who use probabilistic methods discrete mathematics and number theory noga alon phd is baumritter professor of mathematics and computer science at tel aviv university he is a member of the israel national academy of sciences and academia europaea a coeditor of the journal random structures and algorithms dr alon is the recipient of the polya prize the gödel prize the israel prize and the emet prize joel h spencer phd is professor of mathematics and computer 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