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Loss Data Analysis Henryk Gzyl, Silvia Mayoral, Erika Gomes-Gonçalves, 2023-03-06 This volume deals with two complementary topics On one hand the book deals with the problem of determining the probability distribution of a positive compound random variable a problem which appears in the banking and insurance industries in many areas of operational research and in reliability problems in the engineering sciences On the other hand the methodology proposed to solve such problems which is based on an application of the maximum entropy method to invert the Laplace transform of the distributions can be applied to many other problems The book contains applications to a large variety of problems including the problem of dependence of the sample data used to estimate empirically the Laplace transform of the random variable Contents Introduction Frequency models Individual severity models Some detailed examples Some traditional approaches to the aggregation problem Laplace transforms and fractional moment problems The standard maximum entropy method Extensions of the method of maximum entropy Superresolution in maxentropic Laplace transform inversion Sample data dependence Disentangling frequencies and decompounding losses Computations using the maxentropic density Review of statistical procedures

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Journal of the American Statistical Association, 2009

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AMSTAT News American Statistical Association, 2008

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