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Sommario/riassunto

This open access book collects expert contributions on actuarial
 modelling and related topics, from machine learning to legal aspects,
 and reflects on possible insurance designs during an
 epidemic/pandemic. Starting by considering the impulse given by
 COVID-19 to the insurance industry and to actuarial research, the text
 covers compartment models, mortality changes during a pandemic,
 risk-sharing in the presence of low probability events, group testing,
 compositional data analysis for detecting data inconsistencies,
 behavioural aspects in fighting a pandemic, and insurers' legal
 problems, amongst others. Concluding with an essay by a practicing
 actuary on the applicability of the methods proposed, this
 interdisciplinary book is aimed at actuaries as well as readers with a
 background in mathematics, economics, statistics, finance,
 epidemiology, or sociology.
