

A S T I N B U L L E T I N

A Journal of the International Actuarial Association

EDITORS:

Hans Bühlmann
Switzerland

Harry Reid
England

EDITORIAL BOARD:

Björn Ajne
Sweden

Klaus Flemming
FR Germany

Marc Goovaerts
Belgium

Jacques Janssen
Belgium

William S. Jewell
USA

Jukka Rantala
Finland

Bjørn Sundt
Norway

CONTENTS:

Editorial and Announcements i

ARTICLES

G. C. TAYLOR
A Heuristic Review of some Ruin Theory Results 73

H. BÜHLMANN
Premium Calculation from Top Down 89

W. S. JEWELL and R. SCHNIEPER
Credibility Approximations for Bayesian Prediction of
Second Moments 103

J. JANSSEN and J. M. REINHARD
Probabilités de Ruine pour une Classe de Modèles de Risque
Semi-Markoviens 123

N. DE PRIL
Recursions for Convolutions of Arithmetic Distributions 135

F. A. CHAN and H. U. GERBER
The Reinsurer's Monopoly and the Bowley Solution 141

WORKSHOP

R. NORBERG and B. SUNDT
Draft of a System for Solvency Control in Non-Life
Insurance 149

J. HERTIG
A Statistical Approach to IBNR-Reserves in Marine
Reinsurance 171

Index 185

T I E T O LTD

EDITORIAL POLICY

ASTIN BULLETIN started in 1958 as a journal providing an outlet for actuarial studies in non-life insurance. Since then a well-established non-life methodology did result, which is also applicable to other fields of insurance. For that reason ASTIN BULLETIN will publish papers written from any quantitative point of view—whether actuarial, econometric, engineering, mathematical, statistical, etc.—attacking theoretic and applied problems in any field, faced with elements of insurance and risk.

ASTIN BULLETIN appears twice a year. Each issue consisting of about 80 pages.

MEMBERSHIP

ASTIN is a section of the International Actuarial Association (IAA). Membership is open automatically to all IAA members and under certain conditions to non-members also. Applications for membership can be made through the National Correspondent or, in the case of countries not represented by a national correspondent, through a member of the Committee of ASTIN.

Members receive ASTIN BULLETIN free of charge.

SUBSCRIPTION AND BACK ISSUES

ASTIN BULLETIN is published for ASTIN by Tieto Ltd, Bank House, 8a Hill Road, Clevedon, Avon BS21 7HH, England.

All queries and communications concerning subscriptions, including claims and address changes, and concerning back issues should be sent to Tieto Ltd.

The current subscription or back issue price per volume of 2 issues including postage is £16.00.

INDEX TO VOLUMES 1-13

The Cumulative Index to Volumes 1-13 is also published for ASTIN by Tieto Ltd at the above address and is available for the price of £5.00.

Copyright © 1985 Tieto Ltd

PRINTED IN GREAT BRITAIN by J. W. ARROWSMITH LTD, BRISTOL