## TRANSACTIONS OF SOCIETY OF ACTUARIES 1995 VOL. 47

The *Transactions* is published annually by the Society of Actuaries, successor to the Actuarial Society of America and the American Institute of Actuaries, in lieu of *Transactions* and the *Record*, respectively, heretofore published by the two former organizations.

## NOTICE

The Society assumes no responsibility for statements made or opinions expressed in the articles, criticisms, and discussions published in the *Transactions*.

## CONTENTS OF VOLUME XLVII

	PAGE
Foreword	iii
OFFICERS AND BOARD OF GOVERNORS	х
OFFICE OF THE SOCIETY	xi
Address of the President, Barnet N. Berin	1
Papers	
Operations Research in Insurance: A Review. Patrick L. Brockett and	•
Xiaohua Xia	7
Discussion	81
Actuarial Usage of Grouped Data: An Approach to Incorporating Secondary Data. Patrick L. Brockett, Samuel H. Cox, Boaz Golany,	
Fred Y. Phillips, and Yun Song	89
Paygo Funding Stability and Intergenerational Equity. Robert L. Brown Discussion	115 143
Graduation by Kernel and Adaptive Kernel Methods with a Boundary	
Correction. John Gavin, Steven Haberman, and Richard Verrall	173
Review of Adequacy of 1983 Individual Annuity Mortality Table. Robert J.	
Johansen	211
Discussion	235

Orphanhood in the United States. Bertram Kestenbaum	251
Exchange Rate Dynamics in Mixed-Currency Medical Insurance Plan Environments. Kevin M. Law Discussion	261 301
Testing Financial Stability of Continuing Care Retirement Communities.  Ernest J. Moorhead and Niels Fischer  Discussion	307 333
Cash Value Life Insurance for the Twenty-First Century: Segregated Life and the Individual Death Benefit Account. Stephen D. Reddy Discussion	359 399
Simulating Random Variates from Makeham's Distribution and from Others with Exact or Nearly Log-Concave Densities.  David P.M. Scollnik Discussion	409 439
Equivalence of Reserve Methodologies. Keith P. Sharp Discussion	455 469
The "Pension Max" Election: An Investigation of the Structural and Economic Differences between the 100% Contingent Annuity Pension Benefit Option and the Straight Life Benefit Option.  Klaus O. Shigley  Discussion	479 503
Analysis of Health Carrier Insolvencies. James B. Ross and Criss Woodruff	545
Long-Term Care Valuation Insurance Methods. Society of Actuaries  Long-Term Care Valuation Insurance Methods Task Force  Discussion	599 769
Principles Regarding Provisions for Life Risks. Society of Actuaries  Committee on Actuarial Principles	775
The UP-94 and GAR-94 Tables: Issues in Choosing the Appropriate Table. Society of Actuaries Committee on Retirement Systems Research and Committee on Retirement Systems Practice Education	795
The 1994 Uninsured Pensioner Mortality Table. Society of Actuaries	819

CONTENTS	ix
00.112.110	

_		
Table. Society of Actuaries Group	e and 1994 Group Annuity Reserving O Annuity Valuation Table Task Force	865 915
ABOUT THE AUTHORS		
Financial Report		
BOOK REVIEWS AND NOTICES		945
Obituary		951
Warren Rolland Adams	Ben Zijon Lipshitz	
Lawrence Alpern	Arthur Earl Loadman	
Josephine Wakeman Beers	Ralph Haynes Maglathlin	
Karen M. Chalk	Keith Leslie McComb	
William Thomas Chambers	Alexander Marshall	
Milton F. Chauner	Laurence Harding Migotti	
Frank Dominic Cubello	Morton David Miller	
Eugene Frederick Dorfman	Zehman Irving Mosesson	
Jack M. Elkin	Charles Edwin Rickards	
Edmund Dean Forbes	Alexander Campbell Macintosh Rol	pertson
Herbert Symonds Gardner	Joseph F. Saulon	
David Lawrence Gilbert	Edward Gladstone Schafer	
A. Allan Gruson	Philip D. Slater	
Thomas Charles Harding	Anatase Eugene Statius	
Richard Fraser Staples Hazlett	Terence Norman Towry	
James Hunter	Paul Franklin Weber	
William Ward Keffer	William Rulon Williamson, Jr.	

Larry Lang