

TRANSACTIONS OF SOCIETY OF ACTUARIES

1981 VOL. 33

These *Transactions* are 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* heretofore published, respectively, by the two former organizations.

CONTENTS OF VOLUME XXXIII

	PAGE
OFFICERS AND BOARD OF GOVERNORS	vii
OFFICE OF THE SOCIETY	viii
ADDRESS OF THE PRESIDENT, ROBIN B. LECKIE	1
PAPERS:	
Recent Trends in the Mortality of the Aged. John C. Wilkin	11
Discussion	45
Contracting-out for Social Security? John I. Mange	63
Discussion	79
A Critical Analysis of the Assumptions in the 1980 Social Security Trustees' Reports. Roland E. King and Clifford K. Powell	83
Discussion	95
Federal Income Taxation of Life Insurance Companies in the 1980s. Peter W. Plumley	121
Discussion	157
Parametric Models for Life Insurance Mortality Data: Gompertz's Law over Time. W. H. Wetterstrand	159
Discussion	177
A Policy-Year Model for GAAP Valuation of Coinsurance and Modified Coinsurance. David N. Becker and Michael V. Eckman	181
Discussion	201
Patterns in Persistency. Joseph R. Brzezinski	203
The Adjusted Average Per Capita Cost under Risk Contracts with Providers of Health Care. Susan Amos Kunkel and C. Keith Powell	221
Fund Development of an Earnings-related Social Insurance Plan under Stabilized Conditions. Pierre Treuil	231
Discussion	247
Insurance Company Growth. Dale S. Hagstrom	251
Discussion	289
On the Variance and Mean Squared Error of Decrement Estimators. Stuart A. Klugman	301
Discussion	309

An Expanded Financial Structure for Ordinary Dividends. Donald D. Cody	313
Discussion	339
Extensions of Lidstone's Theorem. S. David Promislow	367
Discussion	403
The Funding of Negotiated Pension Plans. Robert C. Kryvicky	405
Discussion	461
Toward a National Health Plan. Allen Elstein	473
Discussion	487
GAAP for Nonguaranteed-Premium Life Insurance. Kriss Cloninger	499
A Unified Approach to Pension Plan Gain and Loss Analysis. Howard J. Small	511
Discussion	537
Measures of Actuarial Status for Social Security: Retrospect and Prospect. Dwight K. Bartlett III	541
Discussion	565
Geometric Solutions to Stationary Population Problems. Beda Chan	583
Discussion	603
Report of the Special Committee to Recommend New Mortality Tables for Valuation	617
1980 CSO and 1980 CET Mortality Tables on an Age Last Birthday Basis	671
Report of the Committee to Recommend a New Mortality Basis for Individual Annuity Valuation (Derivation of the 1983 Table <i>A</i>)	675
Discussion	737
FINANCIAL REPORT	753
BOOK REVIEWS	759
OBITUARY	797
Gerald Bruce Anger	
Marcus Frederick Auden	
Henry Samuel Beers	
George W. Bourke	
Su Tu Chen	
Charles E. Clarke	
William Howard Dean	
Charles Britten English, Jr.	
Garry Louis Gaudry	
Stanley W. Gingery	
Alfred N. Guertin	

CONTENTS OF VOLUME XXXIII

v

Norman M. Hughes	
Arthur W. Larsen	
Will D. MacKinnon	
Ronald G. Maitland	
Charles Mehlman	
Paul Vaughan Montgomery	
Annie Mather Motheral	
Edward J. Mullen	
Gordon William Poland	
Robert N. Powell	
Norris Edward Sheppard	
Franklin C. Smith	
Frederick William Stephens	
Andrew McKee Stiglitz	
Alex C. Wellman	
Elizabeth W. Wilson	
MINUTES OF THE REGIONAL MEETING, APRIL 9-10, 1981	813
MINUTES OF THE REGIONAL MEETING, APRIL 30-MAY 1, 1981	815
MINUTES OF THE REGIONAL MEETING, MAY 28-29, 1981	819
MINUTES OF THE ANNUAL MEETING, OCTOBER 19-21, 1981	821

