S.S. Chern: A Great Geometer of the Twentieth Century expanded edition

S.S. Chern: A Great Geometer of the Twentieth Century expanded edition

edited by Shing-Tung Yau

International Press

S. S. Chern: A Great Geometer of the Twentieth Century, expanded edition Editor: Shing-Tung Yau, Harvard University

Copyright © 1998, 2012 by International Press Somerville, Massachusetts, U.S.A.

All rights reserved. Individual readers of this publication, and non-profit libraries acting for them, are permitted to make fair use of the material, such as to copy a chapter for use in teaching or research. Permission is granted to quote brief passages from this publication in reviews, provided the customary acknowledgement of the source is given. Republication, systematic copying, or mass reproduction of any material in this publication is permitted only under license from International Press.

ISBN 13: 978-1-57146-241-1

Paperback re-issue 2012. Originally published in 1998 under ISBN 1-57146-098-5 (casebound). The opening pages of photographs, table of contents, preface, and chapters are reproduced here in facsimile from the original publication.

Printed in the United States of America.

Table of Contents

Preface		XXX
My Mathematical Education	S.S. Chern	1
The Life and Mathematics of Shiing-Shen Chern, Dedicated to S.S. Chern for the celebration of his 79 th Birthday R. Palais and C. Terng		
S.S. Chern and I	C.N. Yang	63
S.S. Chern as Geometer and Friend	A. Weil	72
Shiing-Shen Chern, As Friend and M A reminiscence on the occasion of hi		79
S.S. Chern at Chicago	I.M. Singer	88
Professor S.S. Chern, My Father-in-	Law Paul C.W. Chu	91
Shiing-Shen Chern, with admiration	as he approaches his 80 th birthda I. Kaplansky	iy 95
Some Personal Remarks about S.S. C	hern L. Nirenberg	98
S.S. Chern	Felix E. Browder	102

Table of Contents, Continued

Personal Recollection of Chern at Ch	icago R. Lashof	104
For the Chern Volume	R. Bott	106
S.S. Chern as Teacher	L. Auslander	109
Reminiscences and Acknowledgemen	nts H. Suzuki	112
Professor S.S. Chern, 79 th Birthday C	Celebration P.A. Griffiths	117
Shiing-Shen Chern's Influences of Va Dedicated to Shiing-Shen Chern	alue Distribution; W. Stoll	121
My Encounters with S.S. Chern	W. Klingenberg	156
On the Normal Gauss Map of a Tight Smooth Surface in R ³ Francois Haab and N.H Kuiper		161
My Interaction with S.S. Chern	J. Simons	176
S.S. Chern: Mathematical Influences	and Reminiscences M.P. do Carmo	179
Riemannian Manifolds: From Curva Brief Historical Overview	ture to Topology, A M. Burger	184
On Chern and Youth	B. Lawson	239
Remarks Delivered at Chern's 79 th B	irthday Celebration J. Cheeger	242
Some Thoughts about S.S. Chern	Alan Weinstein	245

.

Table of Contents, Continued

Some Mathematical and Personal Reminiscences Robert Greene		247
My Teacher S.S. Chern	S.Y. Cheng	253
On Being a Chern Student	S.M. Webster	259
Shiing-Shen Chern, An Optimist	J.P. Bourguignon	261
Chern, Some Recollections	J. Wolfson	268
S.S. Chern, As My Teacher	S.T. Yau	271
Open Problems in Differential Geometry S.T.Yau		
My Associations with S.S. Chern	Chuan-Chih Hsiung	320
Becoming and Being a Chern Student	Thomas Banchoff	326