

Contents

Part I Applied Historical Astronomy

The Length of the Day: Richard Stephenson’s Contribution	3
Leslie Morrison	
Determination of ΔT and Lunar Tidal Acceleration from Ancient Eclipses and Occultations	11
Mitsuru Sôma and Kiyotaka Tanikawa	
The Legendary Fourth-Century Total Solar Eclipse in Georgia: Fact or Fantasy?	25
Jefferson Sauter, Irakli Simonia, F. Richard Stephenson, and Wayne Orchiston	
The Eclipse of Theon and Earth’s Rotation	47
John M. Steele	
Homage to Richard Stephenson: French Observations of the Sun at the Time of the ‘Sun King’	53
Suzanne Débarbat	
Evidence for Recurrent Auroral Activity in the Twelfth and Seventeenth Centuries	61
David M. Willis and Chris J. Davis	
Historical Supernova Explosions in Our Galaxy and Their Remnants	91
David A. Green	

Part II Islamic and Oriental Astronomy

Historical Astronomy of the Caucasus: Sources from Georgia and Armenia	103
Jefferson Sauter, Irakli Simonia, F. Richard Stephenson, and Wayne Orchiston	
Annular Eclipses and Considerations About Solar and Lunar Angular Diameters in Medieval Astronomy	119
S. Mohammad Mozaffari	
The Investigation of Stars, Star Clusters and Nebulae in ‘Abd al-Rahmān al-Šūfī’s <i>Book of the Fixed Stars</i>	143
Ihsan Hafez, F. Richard Stephenson, and Wayne Orchiston	
‘Abd al-Rahmān al-Šūfī’s 3-Step Magnitude System	169
Ihsan Hafez, F. Richard Stephenson, and Wayne Orchiston	
A Thorough Collation of Astronomical Records in the Twenty-Five Histories of China	179
Ciyuan Liu and Xueshun Liu	
Some Statistical Aspects of Historical Chinese Astronomy Records	191
Richard Strom	

Part III Amateur Astronomy

The Clash Between William Herschel and the Great German ‘Amateur’ Astronomer Johann Schroeter	205
Clifford J. Cunningham and Wayne Orchiston	
Henry Beighton’s Eclipse Chart	223
Mike Frost	
Portuguese Amateur Astronomy (1850–1910)	235
Vitor Bonifácio and Isabel Malaquias	
The Amateur-Turned-Professional Syndrome: Two Australian Case Studies	259
Wayne Orchiston	

New Insights From Recent Studies in Historical
Astronomy: Following in the Footsteps of F. Richard
Stephenson

A Meeting to Honor F. Richard Stephenson on His 70th
Birthday

Orchiston, W.; Green, D.A.; Strom, R. (Eds.)

2015, XXX, 350 p. 164 illus., 71 illus. in color.,

Hardcover

ISBN: 978-3-319-07613-3