

M THE AMERICAN MATHEMATICAL MONTHLY



Volume 108, Number 4

April 2001

THE AMERICAN MATHEMATICAL MONTHLY

Volume 108, Number 4, April 2001, 289–387

Rajendra Bhatia	Linear Algebra to Quantum Cohomology: The Story of Alfred Horn's Inequalities	289
R. Shail	A Proof of Thébault's Theorem	319
John H. Hubbard	The Convergence of an Euler	326
Samar S. Habre	Approximation of an Initial Value Problem Is Not Always Obvious	
Beverly H. West		
Garret Sobczyk	The Missing Spectral Basis in Algebra and Number Theory	336
Rachel W. Hall	The Mathematics of Musical Instruments	347
Krešimir Josić		

NOTES

Holger Schellwat	A Simple Slide Rule for Finite Fields	358
Razvan Alin Satnoianu	A General Method for Establishing Geometric Inequalities in a Triangle	360
J. M. Aldaz	A Theorem of D. J. Newman and Euler's ϕ	364
A. Bravo	Function and Arithmetic Progressions	
S. Gutiérrez		
A. Ubis		
Liu Wen	A Counterexample for the Two-Dimensional Density Function	367
N. S. Astapov	The Remarkable Tetron	368
N. C. Noland		

PROBLEMS AND SOLUTIONS **371**

REVIEWS

Arthur M. Hobbs	<i>Graph Theory as I Have Known It.</i> By William T. Tutte	379
	<i>Erdős on Graphs: His Legacy of Unsolved Problems.</i> By Fan Chung and Ron Graham	
Eli Maor	<i>The Universal History of Numbers: From Prehistory to the Invention of the Computer.</i> By Georges Ifrah	382
Harsh V. Pittie	<i>Mathematics: Frontiers and Perspectives.</i> Edited by V. Arnold, M. Atiyah, P. Lax, and B. Mazur	386