

SOCIETY for INDUSTRIAL and APPLIED MATHEMATICS

PLACEYOURORDERTODAY!



WEB Use the online shopping cart on SIAM's website at *www.siam.org/catalog*. SIAM Members select "Member Price." All others select "List Price" and enter coupon code "BKCS13" to receive the discounted conference price.



FAX P.O.s and credit card orders to: 215-386-7999. Be sure to include a completed copy of this entire order form.



FM/CM/IA #

C/R #_

INV#_

PHONE credit card orders only to: 800-447-SIAM (USA and Canada); 215-382-9800 (worldwide). Please fill out all sides of this form before calling to order.

MAIL order form with check, money order, or credit card information to: SIAM, Dept. BKCS13, 3600 Market Street, 6th Floor, Philadelphia, PA USA 19104-2688.

TITLES on DISPLAY

SIAM MEMBERS GET 30% OFF

20% DISCOUNT ON DISPLAYED TITLES FOR CONFERENCE ATTENDEES



DISCOUNT PRICES EXPIRE APRIL 1, 2013

Book Total	\$	
Shipping & Handling (if any)	\$	
Other Purchases (if any)	\$	
6% Sales Tax (PA and IN residents only		
TOTAL	\$	
Standard Shipping & Ha	andli	ng Charges
Order Total U	SA	Outside USA
up to \$49.99\$	5.99.	\$15.99
\$50-\$99.99 \$6	6.99.	\$22.99
\$100-\$149.99\$	7.99.	\$29.99
\$150-\$199.99\$	8.99.	\$36.99
\$200-\$249.99\$9	9.99.	\$43.99
\$250-\$299.99 \$10	0.99.	\$50.99
\$300-\$399.99 \$13	3.99.	\$76.99
\$400 or more\$1		

ALL PRICES ARE IN US DOLLARS

Books Ordered

Books to be Shipped

Books Taken

SHIP TO (Pleas	e PRINT your full name and address clearly)			
Name				
Organization		Dep	artment	
Street				
City	State	Zip	Country	
Phone	Fax		E-mail	
SIAM members: is this	your permanent address? yes 🗆 no 🗅			
METHOD of F	PAYMENT			
□ VISA □ Ma	sterCard	sh (U.S. dollars)	☐ Check or Money Order in U.S. dollars	(payable to SIAM)
CREDIT CARI	D ORDERS			
Credit Card # LL			Expiration date	
Signature				
PLEASE SEND M	1E: □ Information on SIAM Membership	☐ Information on S	SIAM Publications	ue of <i>SIAM NEWS</i>
To view a complete lis	sting of SIAM books, as well as information abo	ut journals, confere	nces, and membership, please visit our we	ebsite: www.siam.org
SIAM Use Only	Date:			

Qty.	Order Code	Author(s)	Title	List Price	Attendee Price	Member Price
	OT120	Andersson & Stewart	Introduction to the Mathematics of Subdivision Surfaces	\$75.00	\$60.00	\$52.50
	DCS06	Antoulas	Approximation of Large-Scale Dynamical Systems	\$104.00	\$83.20	\$72.80
	CL13	Ascher et al	Numerical Solution of Boundary Value Problems for Ordinary Differential Equations	\$70.00	\$56.00	\$49.00
	CS05	Ascher	Numerical Methods for Evolutionary Differential Equations	\$81.50	\$65.20	\$57.05
	CS07	Ascher & Greif	A First Course on Numerical Methods	\$95.00	\$76.00	\$66.50
	OT61	Ascher & Petzold	Computer Methods for Ordinary Differential Equations and Differential-Algebraic Equations	\$62.50	\$50.00	\$43.75
	SE11	Bai et al	Templates for the Solution of Algebraic Eigenvalue Problems: A Practical Guide	\$82.50	\$66.00	\$57.75
	SE17	Berry & Browne	Understanding Search Engines: Mathematical Modeling and Text Retrieval, Second Edition	\$39.00	\$31.20	\$27.30
	DC19	Betts	Practical Methods for Optimal Control and Estimation Using Nonlinear Programming, Second Edition	\$89.00	\$71.20	\$62.30
	CS03	Biegler et al	Real-Time PDE-Constrained Optimization	\$102.00	\$81.60	\$71.40
	DC23	Biegler et al	Control and Optimization with Differential- Algebraic Constraints	\$99.00	\$79.20	\$69.30
	FA09	Bini et al	Numerical Solution of Algebraic Riccati Equations	\$69.00	\$55.20	\$48.30
	MO13	Blekherman et al	Semidefinite Optimization and Convex Algebraic Geometry	\$129.00	\$103.20	\$90.30
	CS08	Borzi & Schulz	Computational Optimization of Systems Governed by Partial Differential Equations	\$89.00	\$71.20	\$62.30
	OT96	Böttcher & Grudsky	Spectral Properties of Banded Toeplitz Matrices	\$102.50	\$82.00	\$71.75
	CL67	Brandt & Livne	Multigrid Techniques: 1984 Guide with Applications to Fluid Dynamics, Revised Edition	\$79.00	\$63.20	\$55.30
	CB84	Brauer & Castillo- Chavez	Mathematical Models for Communicable Diseases	\$77.00	\$61.60	\$53.90
	OT72	Briggs et al	A Multigrid Tutorial, Second Edition	\$56.50	\$45.20	\$39.55
	OT90	Briggs	Ants, Bikes, and Clocks: Problem Solving for Undergraduates	\$51.00	\$40.80	\$35.70
	OTR106	Burkard et al	Assignment Problems, Revised Reprint	\$110.00	\$88.00	\$77.00
	MM17	Calvetti & Somersalo	Computational Mathematical Modeling: An Integrated Approach Across Scales	\$69.00	\$55.20	\$48.30
	OT94	Chan & Shen	Image Processing and Analysis: Variational, PDE, Wavelet, and Stochastic Methods	\$81.00	\$64.80	\$56.70
	CL65	Chatelin	Spectral Approximation of Linear Operators	\$75.00	\$60.00	\$52.50
	CL71	Chatelin	Eigenvalues of Matrices, Revised Edition	\$99.00	\$79.20	\$69.30
	CS02	Chen et al	Computational Methods for Multiphase Flows in Porous Media	\$135.00	\$108.00	\$94.50
	OT103	Dahlquist & Björck	Numerical Methods in Scientific Computing, Volume I	\$112.50	\$90.00	\$78.75

Qty.	Order Code	Author(s)	Title	List Price	Attendee Price	Member Price
	OT116	Datta	Numerical Linear Algebra and Applications, Second Edition	\$79.00	\$63.20	\$55.30
	FA02	Davis	Direct Methods for Sparse Linear Systems	\$70.00	\$56.00	\$49.00
	MM12	de Vries et al	A Course in Mathematical Biology: Quantitative Modeling with Mathematical and Computational Methods	\$74.50	\$59.60	\$52.15
	OT56	Demmel	Applied Numerical Linear Algebra	\$77.50	\$62.00	\$54.25
	CL16	Dennis & Schnabel	Numerical Methods for Unconstrained Optimization and Nonlinear Equations	\$63.00	\$50.40	\$44.10
	SE07	Dongarra et al	Numerical Linear Algebra for High-Performance Computers	\$63.00	\$50.40	\$44.10
	OT115	Driscoll	Learning MATLAB	\$28.00	\$22.40	\$19.60
	CL46	Edelstein-Keshet	Mathematical Models in Biology	\$60.50	\$48.40	\$42.35
	OT124	Ehrendorfer	Spectral Numerical Weather Prediction Models	\$129.00	\$103.20	\$90.30
	OT102	Epstein	Introduction to the Mathematics of Medical Imaging, Second Edition	\$102.00	\$81.60	\$71.40
	FA08	Escalante & Raydan	Alternating Projection Methods	\$60.00	\$48.00	\$42.00
	MP07	Ferris et al	Linear Programming with MATLAB	\$47.00	\$37.60	\$32.90
	OT111	Field & Golubitsky	Symmetry in Chaos: A Search for Pattern in Mathematics, Art, and Nature, Second Edition	\$59.00	\$47.20	\$41.30
	OT107	Fraser	Hidden Markov Models and Dynamical Systems	\$57.00	\$45.60	\$39.90
	SA20	Gan et al	Data Clustering: Theory, Algorithms, and Applications	\$114.00	\$91.20	\$79.80
	OT99	Gil et al	Numerical Methods for Special Functions	\$102.00	\$81.60	\$71.40
	OT122	Gockenbach	Partial Differential Equations: Analytical and Numerical Methods, Second Edition	\$85.00	\$68.00	\$59.50
	OT97	Gockenbach	Understanding and Implementing the Finite Element Method	\$94.00	\$75.20	\$65.80
	SE12	Goedecker & Hoisie	Performance Optimization of Numerically Intensive Codes	\$75.00	\$60.00	\$52.50
	JH01	Golub & Van Loan	Matrix Computations, Fourth Edition	\$70.00	\$56.00	\$49.00
	OT100	Gran	Numerical Computing with Simulink, Volume I: Creating Simulations	\$83.50	\$66.80	\$58.45
	MM03	Griebel et al	Numerical Simulation in Fluid Dynamics: A Practical Introduction	\$94.00	\$75.20	\$65.80
	OT105	Griewank & Walther	Evaluating Derivatives: Principles and Techniques of Algorithmic Differentiation, Second Edition	\$75.50	\$60.40	\$52.85
	OT55	Griffiths & Higham	Learning LATEX	\$33.00	\$26.40	\$23.10
	CL69	Grisvard	Elliptic Problems in Nonsmooth Domains	\$99.00	\$79.20	\$69.30
	OT108	Griva et al	Linear and Nonlinear Optimization, Second Edition	\$98.00	\$78.40	\$68.60

Qty.	Order Code	Author(s)	Title	List Price	Attendee Price	Member Price
	DC05	Gunzburger	Perspectives in Flow Control and Optimization	\$87.00	\$69.60	\$60.90
	CL70	Hannan & Deistler	The Statistical Theory of Linear Systems	\$99.00	\$79.20	\$69.30
	FA03	Hansen et al	Deblurring Images: Matrices, Spectra, and Filtering	\$68.00	\$54.40	\$47.60
	FA07	Hansen	Discrete Inverse Problems: Insight and Algorithms	\$65.00	\$52.00	\$45.50
	JH02	Hansen et al	Least Squares Data Fitting with Applications	\$85.00	\$68.00	\$59.50
	MM04	Hansen	Rank-Deficient & Discrete III-Posed Problems: Numerical Aspects of Linear Inversion	\$75.00	\$60.00	\$52.50
	SE20	Heroux et al	Parallel Processing for Scientific Computing	\$97.50	\$78.00	\$68.25
	OT104	Higham	Functions of Matrices: Theory and Computation	\$61.50	\$49.20	\$43.05
	OT63	Higham	Handbook of Writing for the Mathematical Sciences, Second Edition	\$58.00	\$46.40	\$40.60
	OT80	Higham	Accuracy and Stability of Numerical Algorithms, Second Edition	\$80.00	\$64.00	\$56.00
	OT92	Higham & Higham	MATLAB Guide, Second Edition	\$52.00	\$41.60	\$36.40
	FR26	Höllig	Finite Element Methods with B-Splines	\$81.00	\$64.80	\$56.70
	OT113	Ipsen	Numerical Matrix Analysis: Linear Systems and Least Squares	\$59.00	\$47.20	\$41.30
	DC15	Ito & Kunisch	Lagrange Multiplier Approach to Variational Problems and Applications	\$102.00	\$81.60	\$71.40
	CB83	Jentzen & Kloeden	Taylor Approximations for Stochastic Partial Differential Equations	\$77.00	\$61.60	\$53.90
	OT112	Kamath	Scientific Data Mining: A Practical Perspective	\$71.00	\$56.80	\$49.70
	FA01	Kelley	Solving Nonlinear Equations with Newton's Method	\$51.50	\$41.20	\$36.05
	FR16	Kelley	Iterative Methods for Linear and Nonlinear Equations	\$59.50	\$47.60	\$41.65
	FR18	Kelley	Iterative Methods for Optimization	\$63.00	\$50.40	\$44.10
	SE23	Kelley	Implicit Filtering	\$65.00	\$52.00	\$45.50
	SE21	Kepner	Parallel MATLAB for Multicore and Multinode Computers	\$65.00	\$52.00	\$45.50
	SE22	Kepner & Gilbert	Graph Algorithms in the Language of Linear Algebra	\$110.00	\$88.00	\$77.00
	OT125	Laub	Computational Matrix Analysis	\$47.00	\$37.60	\$32.90
	OT91	Laub	Matrix Analysis for Scientists and Engineers	\$44.00	\$35.20	\$30.80
	CS06	Layton	Introduction to the Numerical Analysis of Incompressible Viscous Flows	\$69.00	\$55.20	\$48.30
	OT98	LeVeque	Finite Difference Methods for Ordinary and Partial Differential Equations: Steady-State and Time-Dependent Problems	\$65.00	\$52.00	\$45.50

Qty.	Order Code	Author(s)	Title	List Price	Attendee Price	Member Price
	FR33	Li & Ito	The Immersed Interface Method: Numerical Solutions of PDEs Involving Interfaces and Irregular Domains	\$91.50	\$73.20	\$64.05
	OT126	Li & Qin	Physics and Partial Differential Equations, Volume I	\$79.00	\$63.20	\$55.30
	MM10	Mattheij et al	Partial Differential Equations: Modeling, Analysis, Computation	\$133.50	\$106.80	\$93.45
	MM14	Meiss	Differential Dynamical Systems	\$81.50	\$65.20	\$57.05
	SE19	Meurant	The Lanczos and Conjugate Gradient Algorithms: From Theory to Finite Precision Computations	\$112.50	\$90.00	\$78.75
	OT71	Meyer	Matrix Analysis and Applied Linear Algebra	\$100.00	\$80.00	\$70.00
	FA06	Modersitzki	FAIR: Flexible Algorithms for Image Registration	\$69.00	\$55.20	\$48.30
	OT87	Moler	Numerical Computing with MATLAB, Revised Reprint	\$51.50	\$41.20	\$36.05
	CS10	Mueller & Siltanen	Linear and Nonlinear Inverse Problems with Practical Applications	\$84.00	\$67.20	\$58.80
	SE24	Naumann	The Art of Differentiating Computer Programs: An Introduction to Algorithmic Differentiation	\$93.00	\$74.40	\$65.10
	CB82	Ni	The Mathematics of Diffusion	\$60.00	\$48.00	\$42.00
	OT109	O'Leary	Scientific Computing with Case Studies	\$95.00	\$76.00	\$66.50
	DC24	Osmolovskii & Maurer	Applications to Regular and Bang-Bang Control: Second-Order Necessary and Sufficient Optimality Conditions in Calculus of Variations and Optimal Control	\$109.00	\$87.20	\$76.30
	MM09	Ottesen et al	Applied Mathematical Models in Human Physiology	\$82.50	\$66.00	\$57.75
	OT76	Overton	Numerical Computing with IEEE Floating Point Arithmetic	\$58.00	\$46.40	\$40.60
	CL20	Parlett	The Symmetric Eigenvalue Problem	\$81.00	\$64.80	\$56.70
	FR35	Rivière	Discontinuous Galerkin Methods for Solving Elliptic and Parabolic Equation: Theory and Implementation	\$57.00	\$45.60	\$39.90
	CL66	Saad	Numerical Methods for Large Eigenvalue Problems, Revised Edition	\$70.00	\$56.00	\$49.00
	OT82	Saad	Iterative Methods for Sparse Linear Systems, Second Edition	\$110.00	\$88.00	\$77.00
	CS09	Shapira	Solving PDEs in C++: Numerical Methods in a Unified Object-Oriented Approach, Second Edition	\$139.00	\$111.20	\$97.30
	OT118	Shmulevich & Dougherty	Probabilistic Boolean Networks: The Modeling and Control of Gene Regulatory Networks	\$59.00	\$47.20	\$41.30
	DC17	Speyer & Chung	Stochastic Processes, Estimation, and Control	\$102.00	\$81.60	\$71.40
	OT85	Stetter	Numerical Polynomial Algebra	\$107.00	\$85.60	\$74.90
	OT49	Stewart	Afternotes on Numerical Analysis	\$54.50	\$43.60	\$38.15

Qty.	Order Code	Author(s)	Title	List Price	Attendee Price	Member Price
	OT58	Stewart	Afternotes Goes to Graduate School: Lectures on Advanced Numerical Analysis	\$59.50	\$47.60	\$41.65
	OT60	Stewart	Matrix Algorithms, Volume I: Basic Decompositions	\$65.00	\$52.00	\$45.50
	OT77	Stewart	Matrix Algorithms, Volume II: Eigensystems	\$70.00	\$56.00	\$49.00
	WC07	Strang	Computational Science and Engineering	\$90.00	\$72.00	\$63.00
	OT88	Strikwerda	Finite Difference Schemes and Partial Differential Equations, Second Edition	\$112.50	\$90.00	\$78.75
	OT89	Tarantola	Inverse Problem Theory and Methods for Model Parameter Estimation	\$98.50	\$78.80	\$68.95
	OT128	Trefethen	Approximation Theory and Approximation Practice	\$49.00	\$39.20	\$34.30
	OT50	Trefethen & Bau	Numerical Linear Algebra	\$63.00	\$50.40	\$44.10
	SE10	Trefethen	Spectral Methods in MATLAB	\$52.00	\$41.60	\$36.40
	MM13	van Groesen & Molenaar	Continuum Modeling in the Physical Sciences	\$67.00	\$53.60	\$46.90
	OT117	Van Loan & Fan	Insight Through Computing: A MATLAB Introduction to Computational Science and Engineering	\$59.00	\$47.20	\$41.30
	FR23	Vogel	Computational Methods for Inverse Problems	\$71.00	\$56.80	\$49.70
	OT101	Watkins	The Matrix Eigenvalue Problem: GR and Krylov Subspace Methods	\$102.00	\$81.60	\$71.40
	OT127	Yamamoto	From Vector Spaces to Function Spaces: Introduction to Functional Analysis with Applications	\$89.00	\$71.20	\$62.30
	CS04	Zohdi	An Introduction to Modeling and Simulation of Particulate Flows	\$113.50	\$90.80	\$79.45