























## Doctoral Degrees Conferred in 1985-1986 (Supplementary List)

The following list supplements the list of thesis titles published in the November 1986 issue of *Notices* (see page 924 for an explanation of the numbers in parentheses).

### ARIZONA

**University of Arizona**  
(8;2,0,0,0,6,0,0)

#### APPLIED MATHEMATICS

Clough, Anne, *A mathematical model of single photon emission computed tomography.*

Dagan, Arie, *Some aspects of vortex line reconnection.*

Hammel, Steven, *A dissipative map of the plane—a model for optical bistability.*

Shelley, Michael, *The application of boundary integral techniques to multiply connected domains.*

Tonellato, Peter, *Critical behavior of an ignition model in chemical combustion.*

Weyker, Robert, *Resonance and asymptotic series based identification of an acoustically rigid sphere.*

#### MATHEMATICS

Sade, Martin, *Variational principles for field variables subject to group actions.*

Wang, Kwang-Shang, *Finite groups for which every complex representation is realizable.*

### ILLINOIS

**University of Chicago**  
(3;2,0,0,0,1,0,0)

#### MATHEMATICS

Crane, Louis, *Action of the loop group on the self-dual Yang-Mills equation.*

Harris, John, *Stable splittings of classifying spaces.*

Squeff, Christina, *Super-convergence of mixed finite element methods for parabolic equations.*

### NEW YORK

**CUNY, Graduate Center**  
(2;1,0,0,0,1,0,0)

#### MATHEMATICS

Benardete, Diego, *Topological equivalence of flows on homogeneous spaces, divergence of subgroups, and asymptotic homotopy classes.*

Kim, Myong-Hi, *Complexity of Newton-Euler type algorithms.*

### PENNSYLVANIA

**Carnegie-Mellon University**  
(4;1,0,0,0,2,0,1)

#### MATHEMATICS

Chang, Ching Lung, *Finite element approximations for first order linear elliptic systems.*

Hodgdon, Marion Louise, *Solutions of the Field relations in a theory of shear bands.*

Strojwas, Malina, *Tangential approximations.*

Turner, James Clarence, *A finite element analysis of a zero equation model of turbulence.*

**Lehigh University**  
(2;1,0,0,0,0,0,1)

#### MATHEMATICS

Bailey, Carmine Michael, *On the optimum design of piston rings.*

Schaffer, Matthew John, *Permanence and universal family theorems for conull FK spaces.*

### SOUTH CAROLINA

**Clemson University**  
(7;1,1,1,0,1,0,3)

#### MATHEMATICAL SCIENCES

Chien, Victor, *Parameter estimation for a diffusion problem in a semi-infinite interval.*

Kovalcik, William, *A lumped parameter model of evaporation-condensation driven convective flows in atmospheric environments.*

Padua, Roberto, *Some robust estimates of the regression coefficients.*

Peters, Kenneth, *Theoretical and algorithmic results on domination and connectivity.*

Piazza, Barry, *Hamiltonian and connectivity properties of permutation graphs.*

Portier, Frederick J., *An integrated approach to discrete simulation: Theory, methodology, and computer aided program generation.*

Stueckle, Samuel, *Algebraic and isomorphism properties of permutation graphs.*