

INDEX TO VOLUME 8

- Adler, Mark. *Some finite dimensional integrable systems*, 237.
- Airault, Helene. *On the solution of a functional equation*, 245.
- Baggett, Larry. *A characterization of "Heisenberg groups"; when is a particle free?*, 561.
- Bullough, R. K., and Caudrey, P. J. *The double-sine-Gordon equation: wobbling solitons?*, 53.
- Burbea, Jacob. *On the Hessian of the Carathéodory metric*, 555.
- Campbell, David K. *Exact classical solutions to the two-dimensional "sigma" model; an unusual application of inverse scattering techniques*, 371.
- Cannon, J. W. $\Sigma^2 H^3 = S^5/G$, 527.
- Carlitz, L. *Polynomial characteristic functions for $GF(p)$ and irregular primes*, 583.
- Caudrey, P. J. See Bullough, R. K.
- Corones, James. See Stewart, Richard W.
- Costabile, G. See Parmentier, R. D.
- Dauns, John. *Enveloping W^* -algebras*, 589.
- Driscoll, C. F., and O'Neil, T. M. *Those ubiquitous, but oft unstable, lattice solitons*, 211.
- Faber, V. *Large abelian subgroups of some infinite groups*, II, 481.
- Ferguson, Warren E. See Lake, Bruce M.
- Flaschka, H., and McLaughlin, D. W. *Preface*, 1.
- Flaschka, H., and McLaughlin, D. W. *Introduction to mathematical techniques for continuous problems*, 3.
- Flaschka, H., and McLaughlin, D. W. *Introduction to discrete systems*, 125.
- Flaschka, H., and McLaughlin, D. W. *Introduction to waves in plasmas*, 253.
- Flaschka, H., and McLaughlin, D. W. *Introduction to quantization and quantum field theory*, 333.
- Friedberg, Michael. *On the universal compactification of a cone*, 503.
- Hasegawa, Akira. See Mima, Kunioki.
- Hasslacher, Brosi, and Neveu, André. *Non-linear quantum field theory*, 341.
- Helton, Jon C. *Solution of two Volterra integral equations*, 547.
- Hinton, Don B. *Deficiency orders of odd-order differential operators*, 627.
- Hyman, J. M. *Time evolution of almost periodic solutions of the KdV equation*, 95.
- Ichikawa, Yoshi-hiko. See Wadati, Miki.
- Jackson, E. Atlee. *Nonlinearity and irreversibility in lattice dynamics*, 127.
- Kaigh, W. D. *An elementary derivation of the distribution of the maxima of Brownian meander and Brownian excursion*, 641.
- Kaup, D. J. *Applications of the inverse scattering transform I: self-induced transparency*, 71.
- Kaup, D. J. *Applications of the inverse scattering transform II: the three-wave resonant interaction*, 283.
- Kirkman, Ellen E. *The Pierce representation of an inertial coefficient ring*, 533.
- Kohn, Peter. *Finite projective dimension under change of rings*, 647.
- Konno, Kimiaki. See Wadati, Miki.
- Lake, Bruce M., Yuen, Henry C., and Ferguson, Warren E. *Envelope solitons and recurrence in nonlinear deep water waves: theory and experiment*, 105.
- Lee, Y. C. See Morales, G. J.
- Maxon, Stephen. *Cylindrical and spherical solitons*, 269.

- McLaughlin, D. W. See Flaschka, H.
- Mima, Kunioki, and Hasegawa, Akira. *2- and 3-dimensional localization of random phase waves*, 309.
- Morales, G. J., and Lee, Y. C. *Soliton-like structures in plasmas*, 257.
- Münster, M. *On A. Lax's condition of hyperbolicity*, 443.
- Münster, M. *On hyperbolic polynomials with constant coefficients*, 653.
- Nelson, James, Jr. *A common fixed point structure*, 675.
- Neveu, André. See Hasslacher, Brosl.
- Newell, Alan C. *The inverse scattering transform, nonlinear waves, singular perturbations and synchronized solitons*, 25.
- Nohl, Craig R. *Quantization of nonlinear wave equations*, 393.
- Novikov, S. P. *A method for solving the periodic problem for the KdV equation and its generalizations*, 83.
- O'Neil, T. M. See Driscoll, C. F.
- Oshobi, E. O. *Norm-decreasing isomorphisms of the trace-class algebras of H^* algebras*, 471.
- Palmer, T. W. *Classes of nonabelian, noncompact, locally compact groups*, 683.
- Park, Sehie. *Fixed points of f -contractive maps*, 743.
- Parmentier, R. D., and Costabile, G. *Fluxon propagation and DC current singularities in long Josephson junctions*, 117.
- Phillips, Keith. *A note on local field duality*, 433.
- Prabhakar, T. R., and Rekha, Suman. *Some results on the polynomials $L_n^{\alpha, \beta}(x)$* , 751.
- Rekha, Suman. See Prabhakar, T. R.
- Sanuki, Heiji. See Wadati, Miki.
- Scheiblich, H. E. *On coproducts of rectangular bands*, 539.
- Segur, Harvey. *Solitons as approximate descriptions of physical phenomena*, 15.
- Slud, Eric V. *A note on exchangeable sequences of events*, 439.
- Stewart, Richard W., and Coronas, James. *The breakup of soliton like pulses on a nonlinear, nonuniform electrical lattice*, 227.
- Sutherland, Bill. *A brief history of the quantum soliton with new results on the quantization of the Toda lattice*, 413.
- Toda, Morikazu. *Problems in nonlinear dynamics*, 197.
- Turek, Richard J. *An approach to completely ergodic transformations and a stacking method*, 755.
- Umamaheswaram, S. *$\lambda(n, k)$ -parameter families and associated convex functions*, 491.
- Umamaheswaram, S. *$\lambda(n, k)$ -convex functions*, 759.
- Wadati, Miki, Sanuki, Heiji, Konno, Kimiaki, and Ichikawa, Yoshi-hiko. *Circular polarized nonlinear Alfvén waves—a new type of nonlinear evolution equation in plasma physics*, 323.
- Warren, R. H. *Neighborhoods, bases and continuity in fuzzy topological spaces*, 459.
- Willett, D. *Differential inequalities and the asymptotics of second order nonlinear differential equations*, 447.
- Yuen, Henry C. See Lake, Bruce M.