## Review Articles

- [1] E. Schöll, P. Hövel, V. Flunkert, and M. A. Dahlem: Time-delayed feedback control: from simple models to lasers and neural systems, in Complex time-delay systems: theory and applications, edited by F. M. Atay (Springer, Berlin, 2010), pp. 85–150.
- [2] E. Schöll: Pattern formation and time-delayed feedback control at the nano-scale, in Nonlinear Dynamics of Nanosystems, edited by G. Radons, B. Rumpf, and H. G. Schuster (Wiley-VCH, Weinheim, 2010), pp. 325–367.
- [3] E. Schöll and H. G. Schuster (Editors): *Handbook of Chaos Control* (Wiley-VCH, Weinheim, 2008), second completely revised and enlarged edition.
- [4] N. B. Janson, A. G. Balanov, and E. Schöll: *Control of noise-induced dynamics*, in *Handbook of Chaos Control*, edited by E. Schöll and H. G. Schuster (Wiley-VCH, Weinheim, 2008), chap. 11, pp. 223–274, second completely revised and enlarged edition.
- [5] E. Schöll: Delayed feedback control of chaotic spatio-temporal patterns in semiconductor nanostructures, in Handbook of Chaos Control, edited by E. Schöll and H. G. Schuster (Wiley-VCH, Weinheim, 2008), chap. 24, pp. 533–558, second completely revised and enlarged edition.
- [6] B. Fiedler, V. Flunkert, M. Georgi, P. Hövel, and E. Schöll: Beyond the odd number limitation of time-delayed feedback control, in Handbook of Chaos Control, edited by E. Schöll and H. G. Schuster (Wiley-VCH, Weinheim, 2008), pp. 73–84, second completely revised and enlarged edition.
- [7] B. Fiedler, V. Flunkert, M. Georgi, P. Hövel, and E. Schöll: *Delay stabilization of rotating waves without odd number limitation*, in *Reviews of nonlinear dynamics and complexity*, edited by H. G. Schuster (Wiley-VCH, Weinheim, 2008), vol. 1, pp. 53–68.
- [8] V. A. Shchukin, E. Schöll, and P. Kratzer: *Thermodynamics and kinetics of quantum dot growth*, in *Semiconductor Nanostructures*, edited by D. Bimberg (Springer, Berlin, 2008), pp. 1–39.
- [9] G. Kießlich, A. Wacker, and E. Schöll: Theory of nonlinear transport for ensembles of quantum dots, in Semiconductor Nanostructures, edited by D. Bimberg (Springer, Berlin, 2008), pp. 211–220.
- [10] E. Schöll, J. Hizanidis, P. Hövel, and G. Stegemann: Pattern formation in semiconductors under the influence of time-delayed feedback control and noise, in Analysis and control of complex nonlinear processes in physics, chemistry and biology, edited by L. Schimansky-Geier, B. Fiedler, J. Kurths, and E. Schöll (World Scientific, Singapore, 2007), pp. 135–183.
- [11] L. Schimansky-Geier, B. Fiedler, J. Kurths, and E. Schöll (Editors): Analysis and control of complex nonlinear processes in physics, chemistry and biology (World Scientific, Singapore, 2007).
- [12] E. Schöll: Was ist Nanotechnologie?, in Jahrbuch 2004 der Berliner Wissenschaftlichen Gesellschaft, edited by B. Sösemann (Berliner Wissenschaftsverlag, Berlin, 2005), pp. 263–266, ISSN 0171-3302.

- [13] E. Schöll: Pattern formation in semiconductors: control of spatio-temporal dynamics, Ann. Phys. (Leipzig) 13, 403 (2004), Special Topic Issue, ed. by R. Friedrich, T. Kuhn and S. Linz.
- [14] E. Schöll: Nonlinear dynamics and pattern formation in semiconductor systems, in Collective Dynamics of Nonlinear and Disordered Systems, edited by G. Radons, W. Just, and W. Häussler (Springer, Berlin, 2005), pp. 39–59.
- [15] E. Schöll: Avalanche breakdown; diodes; Drude model; semiconductor oscillators, in Encyclopedia of Nonlinear Science, edited by A. Scott (Routledge, London, 2005), pp. 30–832, 30-32,210-211,235-236,830-832.
- [16] W. Just, H. Benner, and E. Schöll: Control of chaos by time-delayed feedback: a survey of theoretical and experimental aspects, in Advances in Solid State Physics, edited by B. Kramer (Springer, Berlin, 2003), vol. 43, pp. 589-603.
- [17] E. Schöll: Field domains and current filaments, in Survey of semiconductor physics Vol. II, edited by K. W. Böer (Plenum, New York, 2002), pp. 737–804.
- [18] E. Schöll: Nonlinear spatio-temporal dynamics and chaos in semiconductors (Cambridge University Press, Cambridge, 2001), Nonlinear Science Series, Vol. 10.
- [19] E. Schöll: Nonlinear spatiotemporal patterns in globally coupled reaction-diffusion systems, in Stochastic Processes in Physics, Chemistry and Biology, edited by J. A. Freund and T. Pöschel (Springer, Berlin, 2000), p. 437.
- [20] E. Schöll: Nonlinear spatio-temporal dynamics in semiconductors, Braz. J. Phys. 29, 627 (1999).
- [21] E. Schöll: Modelling of devices for optoelectronic applications: The quantum confined Stark effect and self-electrooptic effect devices, Turk. J. Phys. 23, 635 (1999).
- [22] E. Schöll, F. J. Niedernostheide, J. Parisi, W. Prettl, and H. G. Purwins: Formation of spatio-temporal structures in semiconductors, in Evolution of spontaneous structures in dissipative continuous systems, edited by F. H. Busse and S. C. Müller (Springer, Berlin, 1998), pp. 446–494.
- [23] E. Schöll: Impact phenomena and nonlinear spatiotemporal dynamics of hot electrons in semiconductors, in Hot electrons in semiconductors: physics and devices, edited by N. Balkan (Oxford University Press, Oxford, 1998), chap. 9, pp. 209–231, vormals SCH97c.
- [24] E. Schöll (Editor): Theory of Transport Properties of Semiconductor Nanostructures, vol. 4 of Electronic Materials Series (Chapman and Hall, London, 1998).
- [25] E. Schöll: Modeling nonlinear and chaotic dynamics in semiconductor device structures, VLSI Design 6, 321 (1998), proc. 4th Int. Workshop on Computational Electronics (Tempe, Az.), ed. D. K. Ferry and C. Gardner and C. Ringhofer.
- [26] E. Schöll: Spatio-temporal pattern formation in semiconductors, in Selforganization in Activator-Inhibitor-Systems, edited by H. Engel, F. J. Niedernostheide, H. G. Purwins, and E. Schöll (Wissenschaft & Technik Verlag, Berlin, 1996), pp. 10–15.

- [27] E. Schöll and A. Wacker: Oscillatory transport instabilities and complex spatiotemporal dynamics in semiconductors, in Nonlinear Dynamics and Pattern Formation in Semiconductors and Devices, edited by F. J. Niedernostheide (Springer, Berlin, 1995), pp. 21–45.
- [28] E. Schöll: Theory of oscillatory instabilities in parallel and perpendicular transport in heterostructures, in Negative Differential Resistance and Instabilities in two-dimensional Semiconductors, edited by N. Balkan, B. K. Ridley, and A. J. Vickers (Plenum Press, New York, 1993), p. 37.
- [29] E. Schöll: Nonlinear dynamics, phase transitions and chaos in semiconductors, in Handbook on Semiconductors, edited by P. T. Landsberg (North Holland, Amsterdam, 1992), vol. 1.
- [30] E. Schöll: Current instabilities in semiconductors: Mechanisms and self-organized structures, in Nonlinear Dynamics in Solid State Physics, edited by H. Thomas (Springer, Berlin, 1992).
- [31] M. P. Shaw, V. V. Mitin, E. Schöll, and H. L. Grubin: *The Physics of Instabilities in Solid State Electron Devices* (Plenum Press, New York, 1992).
- [32] E. Schöll: Theoretical approaches to nonlinear and chaotic dynamics of generation-recombination processes in semiconductors, Appl. Phys. A 48, 95 (1989).
- [33] E. Schöll: Nonequilibrium Phase Transitions in Semiconductors (Springer, Berlin, 1987).