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Reviews

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INTRODUCTION TO CLASSICAL INTEGRABLE SYETMS (2ND EDITION)

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World Publishing Corporation, 2009. Soft cover. Condition: New. 2nd Edition. Language : English ; 602 pages (International Edition) The book provides a thorough introduction to the theory of classical integrable systems, discussing the various approaches to the subject and explaining their interrelations. The book begins by introducing the central ideas of the theory of integrable systems, based on Lax representations, loop groups and Riemann surfaces. These ideas are then illustrated with detailed studies of model systems. The connection between isomon- odromic deformation and integrability is discussed, and integrable field theories are covered in detail. The KP, KdV and 'lbda hierarchies are explained using the notion of Grassmannian, vertex operators and pseudo-differential operators. A chapter is devoted to the inverse scattering method and three complementary chapters cover the necessary mathematical tools from symplectic geometry, Riemann surfaces and Lie algebras. The book contains many worked examples and is suitable for use as a textbook on graduate courses. It also provides a comprehensive reference for researchers already working in the field. O LIVIE R B A B E L O N has been a member of the Centre National de la Recherche Sci- entifique ¿CNRS¿ since 1978. He works at the Laboratoire de Physique Theorique et Hautes Energies ¿LPTRE¿ at the University of Paris VI-Paris VII. His main fields of interest are particle physics, gauge theories and integrables systems. M I C H E L T A L O N has been a member of the CNRS since 1977. He works at the LPTHE at the University of Paris VI-Paris VII. He is involved in the computation of radiative corrections and anomalies in gauge theories and integrable systems. DENIS BERNARD has been a member of the CNRS since 1988. He currently works at the Service de Physique Theorique de Saclay. His main...

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