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Constant Mean Curvature Surfaces, Harmonic Maps and Integrable Systems (Paperback)

By Frederic Helein

Birkhauser Verlag AG, Switzerland, 2001. Paperback. Condition: New. 2001 ed.. Language: English . Brand New Book ***** Print on Demand *****.One of the most striking development of the last decades in the study of minimal surfaces, constant mean surfaces and harmonic maps is the discovery that many classical problems in differential geometry - including these examples - are actually integrable systems. This theory grew up mainly after the important discovery of the properties of the Korteweg-de Vries equation in the sixties. After C. Gardner, J. Greene, M. Kruskal et R. Miura [44] showed that this equation could be solved using the inverse scattering method and P. Lax [62] reinterpreted this method by his famous equation, many other deep observations have been made during the seventies, mainly by the Russian and the Japanese schools. In particular this theory was shown to be strongly connected with methods from algebraic geometry (S. Novikov, V. B. Matveev, L.M. Krichever.), loop techniques (M. Adler, B. Kostant, W. W. Symes, M. J. Ablowitz .) and Grassmannian manifolds in Hilbert spaces (M. Sato .). Approximatively during the same period, the twist or theory of R. Penrose, built independently, was applied successfully by R. Penrose and R....



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