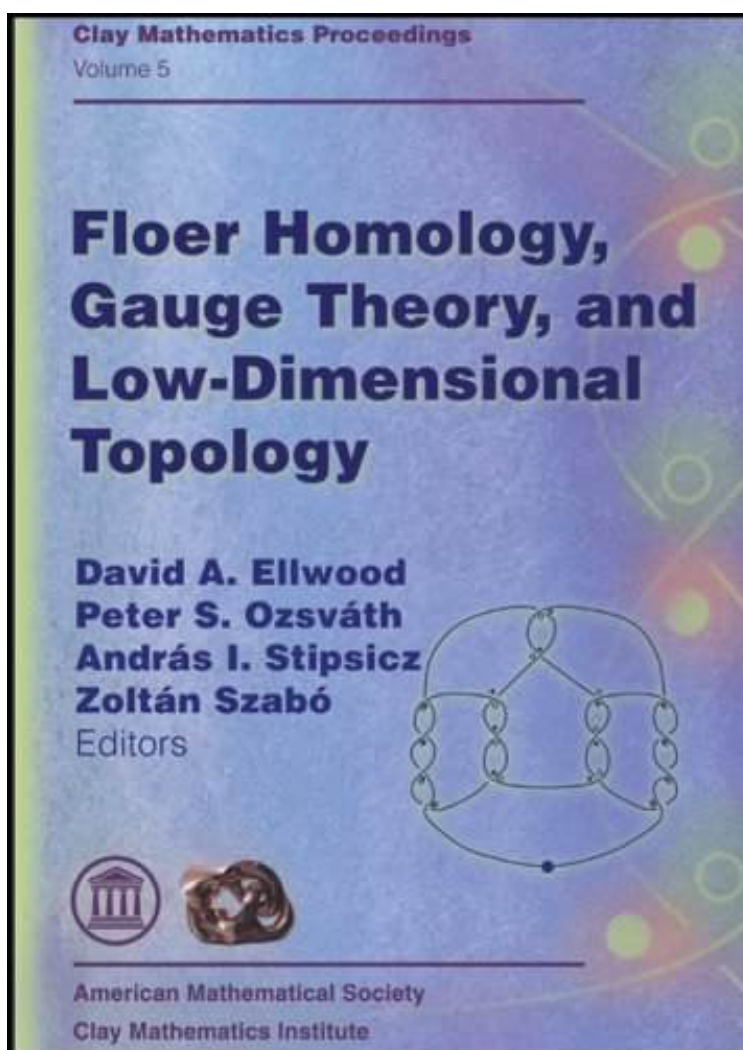# Floer Homology, Gauge Theory, and Low Dimensional Topology: Proceedings of the Clay Mathematics Institute 2004 Summer School, Alfred Renyi Institute of Mathematics, Budapest, Hungary, June 5-26, 2004 (Clay Mathematics Proceedings, Vol. 5)

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Mathematical gauge theory studies connections on principal bundles or more precisely the solution spaces of certain partial differential equations for such connections Historically these equations have come from mathematical physics and play an important role in the description of the electro weak and strong nuclear forces The use of gauge theory as a tool for studying topological properties of four manifolds was pioneered by the fundamental work of Simon Donaldso

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