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Best Approximation and its Applications in Optimization

We investigate best approximation by elements of closed convex sets in Hilbert and Banach spaces. Next, we present best approximation problem by elements of non-convex sets, in particular, downward and upward sets. We shall use the so-called downward and upward sets as a tool in the study of best approximation by arbitrary closed sets. Finally, we present the best constrained approximation problem in general case.

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