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Sinopsis

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In this memoir the authors revisit Almgren's theory of Q-valued functions, which are functions taking values in the space $\mathcal{A}_Q(\mathbb{R}^n)$ of unordered Q -tuples of points in \mathbb{R}^n .

In particular, the authors:

give shorter versions of Almgren's proofs of the existence of Dir -minimizing Q -valued functions, of their Hölder regularity, and of the dimension estimate of their singular set;

propose an alternative, intrinsic approach to these results, not relying on Almgren's biLipschitz embedding $\xi: \mathcal{A}_Q(\mathbb{R}^n) \rightarrow \mathbb{R}^{N(Q,n)}$;

improve upon the estimate of the singular set of planar D -minimizing functions by showing that it consists of isolated points.