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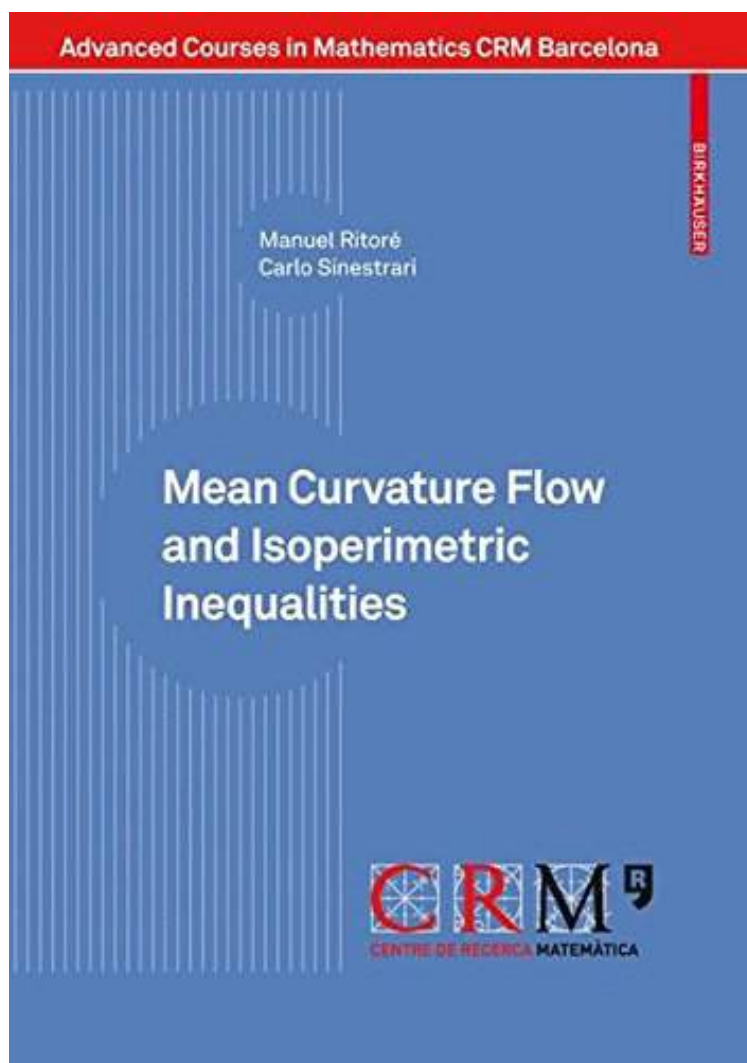
By Manuel Ritoré, Carlo Sinestrari : Mean Curvature Flow and Isoperimetric Inequalities (Advanced Courses in Mathematics - CRM Barcelona) Mean Curvature Flow and Isoperimetric Inequalities (Advanced Courses in Mathematics - CRM Barcelona):

Geometric flows have many applications in physics and geometry The mean curvature flow occurs in the description of the interface evolution in certain physical models This is related to the property that such a flow is the gradient flow of the area functional and therefore appears naturally in problems where a surface energy is minimized The mean curvature flow also has many geometric applications in analogy with the Ricci flow of metrics on abstract riemannian ma

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