The Maxwell-Stefan system, its gradient flow structure, and the problem of uniqueness of weak solutions

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We consider the Maxwell-Stefan system and discuss the following items:
(i) How it emerges in the high-friction limit of multi-component Euler flows. (ii) The question of uniqueness of weak solutions for the Maxwell-Stefan model. (iii) The construction of numerical schemes for the Maxwell-Stefan system associated with the minimization of frictional dissipation.
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