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Discrete Mechanics of Capillary Bridges

Gerard Gagneux, Olivier Millet

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Discrete Mechanics of Capillary Bridges proposes an original resolution of Young-Laplace equation applied in capillary bridges from an inverse problem. It establishes a simple but explicit criterion based on the observation of the contact point, the wetting angle, and the gorge radius, to classify in an exhaustive way the nature of the resulting capillary bridges. The binding forces, areas, and volumes may also be calculated analytically.

- Clarifies the classification of capillary bridges existing in the literature
- Provides an accurate method of identifying the shape of the meridian, associated to an explicit parameterization
- Proposes a complete study of the stability based on the second variation criterion
- Establishes a simple criterion of classification of capillary bridges based on observation of the contact point, the wetting angle, and the gorge radius

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