

Geometry and Symmetry in Physics

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STABILITY OF UNDULOIDAL AND NODOIDAL MENISCI BETWEEN TWO SOLID SPHERES

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Abstract. We find the existence conditions of unduloidal and nodoidal menisci between two solid spheres and study their stability under axisymmetric perturbations in the framework of non-spectral theory of stability of axisymmetric menisci between two axisymmetric solid bodies in the absence of gravity.

MSC: 53A10, 76B45

Keywords: axisymmetric pendular rings, inflection points, stability problem

Contents

1	Axisymmetric Menisci Between Solid Bodies and Their Existence						
2							
3							
	3.1	Constraints of A and B Types	84				
	3.2	Constraint of C Type	86				
	3.3	Constraint of D Type	87				
4	Menisci Between Equal Spheres. Face-to-Face Setup						
	4.1	Unduloidal Menisci Between Two Solid Spheres	88				
	4.2	Nodoidal Menisci Between Solid Spheres (2 Types of Constraints)	89				
	4.3	Nodoidal Menisci Between Solid Spheres (3 Types of Constraints)	89				
	4.4	Menisci Between Two Equal Contacting Spheres	90				
5	Mer	Menisci Between Equal Spheres. Back-to-Back Setup					
6	Mer	nisci Between Equal Spheres. Face-to-Back Setup	94				
7	Menisci Between Nonequal Spheres						
	7.1	Face-to-Face Setup	95				
	7.2	Face-to-Back Setup	96				
Re	eferer	nces	97				
do	i: 10.7	546/igsp-39-2015-77-98	77				