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Mass-Stiffness substructuring of an elastic metasurface for full transmission beam steering

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Highlights

- An elastic metasurface is investigated for both full transmission and 2π phase shift. (85)
- A novel substructured unit cell forming the elastic metasurface is proposed. (76)
- The working mechanism is predicted accurately by an explicit mass-spring model. (79)
- Wave steering and focusing were achieved by the designed elastic metasurface. (77)

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