

Accepted Manuscript

Radial-Contour Mode Microring Resonators: Nonlinear Dynamics

Meysam T. Chorsi , Hamid T. Chorsi , Stephen D. Gedney

PII: S0020-7403(17)30008-5
DOI: [10.1016/j.ijmecsci.2017.05.051](https://doi.org/10.1016/j.ijmecsci.2017.05.051)
Reference: MS 3730



To appear in: *International Journal of Mechanical Sciences*

Received date: 2 January 2017
Revised date: 1 May 2017
Accepted date: 23 May 2017

Please cite this article as: Meysam T. Chorsi , Hamid T. Chorsi , Stephen D. Gedney , Radial-Contour Mode Microring Resonators: Nonlinear Dynamics, *International Journal of Mechanical Sciences* (2017), doi: [10.1016/j.ijmecsci.2017.05.051](https://doi.org/10.1016/j.ijmecsci.2017.05.051)

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

Highlights

- Nonlinear dynamics of a microring resonator is studied.
- Shooting method is applied to capture the periodic solutions.
- The stability of these periodic solutions and the bifurcations types are also studied.
- The influences of intermolecular forces on the dynamics of the resonator are investigated.
- The effect of the design parameters on the dynamic responses is discussed.

Download English Version:

<https://daneshyari.com/en/article/5015955>

Download Persian Version:

<https://daneshyari.com/article/5015955>

[Daneshyari.com](https://daneshyari.com)