

# Indian Journal of Radio & Space Physics

CODEN: IJRSAK ISSN: 0367-8393 (print); 0975-105X (online)

<http://www.niscair.res.in>; <http://nopr.niscair.res.in>

---

VOLUME 40

NUMBER 5

OCTOBER 2011

---

## CONTENTS

- Interactions between whistler-mode signals and magnetospheric energetic electrons: An overview of some experimental observations and theoretical interpretations 241  
Michael J Rycroft
- Solar flare of 15 February 2011 and its geomagnetic effects 253  
R P Kane
- Characteristics of S-W and N-E monsoon rainfall over Salem 257  
R S Jaiswal\*, V S Neela, M Rasheed, S R Fredrick & L Zaveri
- Estimation of emissivity and scattering coefficient of low saline water contaminated by diesel in Cj band (5.3 GHz) and Ku band (13.4 GHz) 267  
O P N Calla\*, Nima Ahmadian & Sayeh Hasan
- Design of broadband circular patch microstrip antenna with diamond shape slot 275  
Garima, D Bhatnagar\*, J S Saini, V K Saxena & L M Joshi
- Broadband and high gain microstrip patch antenna for WLAN 282  
Anil Kumar Agrawal, Shyam Sundar Pattnaik\*, S Devi & J G Joshi

---

\*Authors for correspondence