PUBLICATIONS

INTERNATIONAL JOURNALS


7. A. Lonappan, V. Thomas, G. Bindu, V. Hamsakutty, and K. T. Mathew “Analysis Of Human Breast Milk At Microwave Frequencies”, Progress in Electromagnetic Research (USA), 2005


10. A. V. Praveen Kumar, V. Hamsakutty, Jaimon Yohannan, K. T. Mathew*, “Microstrip fed Half-Cylindrical Dielectric Resonator Antenna for 2.4 GHz WLAN application”, Microwave and Optical


CONFERENCE PAPERS

1. V. Hamsakkutty and K. T. Mathew, “ Dual frequency hexagonal dielectric resonator antenna for DCT and WLAN applications”, National Symposium on Antennas & Propagation December 14-


15. Jaimon Yohannan, Vinu Thomas, V. Hamsakkutty, Praveen Kumar, K. T. Mathew,” Sr(1 x!2)Na x Nb 2 O 6 ceramic dielectric resonator antennas”, National Symposium on Antennas & Propagation December 21-23, 2004, Department of Electronics, Cochin University of Science and Technology, Kochi-682 022, Kerala, India.
ERRATA

1) Since we had only one hexagonal die in our lab, we fabricated DRs of the same side length “a”, but of different heights throughout the thesis

2) pp. 24: Eqn. 1.1, \( X_{np} \) is the root of the characteristic equation \( J_n(X_{np}) = 0 \) or \( J_n'(X_{np}) = 0 \) and \( J_n \) is the \( n \)th order Bessel function of the first kind, \( J_n' \) is the first derivative of \( J_n \)

3) pp. 25, Ref. for Q-minimum, Dielectric resonators, Edited by D. Kajfez and Pierre Guillon, Artech House, 1986


5) pp. 28, 2nd sentence after Eq. 1.6: read as “Low Q-factor occurs for small values of dielectric constant”


7) pp. 71, line 4 from the bottom, “special” should be replaced by “spatial”.

8) Section (3.4.4), The polarisation of the test antenna is measured by manually rotating the horn antenna about its axis, not by using the position controller.

9) pp. 76-79: “dye” should be replaced by “die” that is the device used for producing a shaped DR from the material powder.


11) pp. 150: denominator of Eq. 6.42 is \( \Delta y \) instead of \( \Delta x \).

12) pp. 159: Don’t get confused with the sides of the cross section of the DR that seem unequal in Fig. 6.3 (d). All are of equal length “a”.
PERSONAL

Date of birth : 19th January 1976
Sex : Male
Languages Known : English and Malayalam
Nationality : Indian
Religion : Islam
Marital status : Married
Father's Name : V. Abdul Khader
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Permanent Address : Vettikalladi House
Pallikurup. P.O
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Resume

SUMMARY

- 5+ years of teaching experience at graduate level
- 4 years of research experience in Microwave Electronics, especially in dielectric resonator antennas
- Proficiency in Assembly Language programming (& Microprocessors) and high level programming

EDUCATION

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<tr>
<th>Course</th>
<th>Year</th>
<th>University</th>
<th>Institution</th>
<th>Class</th>
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<tbody>
<tr>
<td>Ph.D - Microwave</td>
<td>June 2002 to</td>
<td>Cochin University of Science and Technology, Cochin,</td>
<td>Department of Electronics, Kerala, India</td>
<td>First Rank with Distinction</td>
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<tr>
<td>Electronics (Synopsis</td>
<td>till date</td>
<td>Kerala, India</td>
<td></td>
<td>(84.5%)</td>
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<td>submitted)</td>
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<td></td>
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<td>CGPA-8.5</td>
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<tr>
<td>M.Sc Electronics</td>
<td>1996-1999</td>
<td>Cochin University of Science and Technology, Cochin,</td>
<td>Department of Electronics, Kerala, India</td>
<td>First Rank with Distinction</td>
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<tr>
<td>Science</td>
<td></td>
<td>Kerala, India</td>
<td></td>
<td>(84.5%)</td>
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<tr>
<td>B.Sc Physics</td>
<td>1993-1996</td>
<td>University of Calicut, Kerala, India</td>
<td>M.E.S College, Mannarkkad, Kerala, India</td>
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<td>First class with Distinction</td>
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<td>(90.8%)</td>
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HONORS, AWARDS & ACHIEVEMENTS

1. Included in the first edition of who's who in Asia in the field of Engineering during the year 2006-2007.
2. Authored/co-authored 32 research papers in International Journals such as IEEE Microwave and Wireless Component Letters, IEE Electronics Letters, Microwave and Optical Technology letters etc. and in conference proceedings.
3. Awarded research fellowship through Faculty Improvement Programme (FIP) for undertaking doctoral research work by University Grants Commission (UGC), under the Ministry of Human resources development, Govt. of India, India.(2005-2007)
4. Qualified UGC-NET test for lecturers conducted by University Grants Commission, Ministry of Human Recourses Development,
Govt. of India. In India this test is compulsory for the post of Lecturer appointment in the Universities and Colleges. (2001)

5. **First Rank Holder**, M.Sc Electronics examination, Cochin University of Science and Technology (CUSAT) Kochi, India (1999)

6. Recipient of **K.G Nair Endowment Gold Medal** for securing first rank in Post graduation, which was one of the honorable award given to the most talented student of the Department of Electronics, CUSAT (1999)


8. **Topper in B.Sc Degree examination** at M.E.S College, Under University of Calicut, Mannarkkad, Kerala, India.

## TECHNICAL SKILLS

1. Experience in Antenna and RF/Microwave circuit design using **Ansoft HFSS**
2. Proficient in Finite Difference Time Domain (FDTD) method
4. Experience in carrying out antenna measurements in Anechoic Chambers
5. Hands-on experience in building of antenna prototypes using photolithography and antenna experimental work.
6. Experience in design and testing of Dielectric Resonator Antennas
7. Measurement of Dielectric constant and Loss tangent of a material using Cavity Perturbation Technique

## PROGRAMMING SKILLS

- High-level languages: C, C++, FORTRAN, BASIC, VHDL.
- Design automation tools: Xilinx FPGA.
- Algorithm development environments: MATLAB
- Assembly language: 8085
- General Applications: MS office
SCHOLARLY WORK AND SERVICES

2. **Chairman**, board of Studies, Electronics, University of Calicut, Kerala, India (since 2005)
3. **Member**, board of Examination, Electronics, University of Calicut, Kerala, India
4. **Member**, board of Examination, Electronics, Kannur University, Kerala, India.
5. **Subject expert** for appointing lecturers in colleges, University of Calicut, India.

WORK EXPERIENCE INCLUDING RESEARCH PROJECTS

RESEARCH / TEACHING EXPERIENCE

1. Senior Research Fellow under faculty Improvement Programme of University Grants Commission at the Department of Electronics, Cochin University of Science and Technology, Cochin, from Feb 2005 to till date.


3. Senior research fellow in a DST project of government of India at dept of Electronics, Cochin University of Science and Technology, Kochi, Kerala, India, July 2003 to Jan 2004

REFERENCES

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   Cochin University of Science and Technology, Kochi-22, India.
   Email: ktm@cusat.ac.in, Ph. 91-484-2576418, Fax: 91-484-2575800

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I hereby declare that all the information given above is true to the best of my Knowledge and belief.

-sd-

Kochi
V. Hamsakutty