

### **Area efficient hexadecimal divider circuit implementation based on USP-awadhoot division algorithm**

**Patankar, Udayan Sunil; Koel, Ants;** Patankar, Sunil M.; Flores, Miguel E. IEEE International Conference on Engineering, Technology and Innovation (ICE/ITMC) 2021 / p. 1-8 <https://doi.org/10.1109/ICE/ITMC52061.2021.9570263>

### **Complex division by Baudhayan triplet algorithm using novel state of the art USP-awadhoot divider**

**Patankar, Udayan Sunil; Koel, Ants;** Patankar, Sunil M.; Flores, Miguel E. IEEE 4th Advanced Information Management, Communicates, Electronic and Automation Control Conference (IMCEC) 2021 / p. 1918-1922  
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### **Design of two stage high efficiency power amplifier in 0.13um technology for 2.4 GHz ISM band applications**

**Patankar, Udayan Sunil; Koel, Ants; Rang, Toomas** Journal of Advanced Research in Dynamical and Control Systems 2018 / p. 822–829 <http://www.jardcs.org/backissues/abstract.php?archiveid=3585>

### **Divider implementation based on USP-awadhoot division algorithm For area optimization**

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### **Division algorithms - from past to present chance to improve area time and complexity for digital applications**

**Patankar, Udayan Sunil;** Flores, Miguel E.; **Koel, Ants** LAEDC 2020 : Latin American Electron Devices Conference, San José, Costa Rica, February 25-28, 2020 2020 / 4 p <https://doi.org/10.1109/LAEDC49063.2020.9073050>

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### **Moving average filter block implementation using USP-Awadhoot divider**

**Patankar, Udayan Sunil;** Flores, Miguel E.; **Koel, Ants;** Patankar, Sunil 2024 19th Biennial Baltic Electronics Conference (BEC) 2024 / 6 p <https://doi.org/10.1109/BEC61458.2024.10737938>

### **Novel data dependent divider circuit block implementation for complex division and area critical applications**

**Patankar, Udayan Sunil;** Flores, Miguel E.; **Koel, Ants** Scientific reports 2023 / art. 3027, 28 p. : ill <https://doi.org/10.1038/s41598-023-28343-3> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Numerical simulations of wideband SiC N-N heterostructure diode**

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