

Members from Other University /Institutions

Member 4

Name: Dr.Bindu B

Designation: Associate Professor Senior

Department: School of Electronics Engineering (SENSE)

Name of the Organization/Institution: VIT University

Place: Chennai

Pin code: 600127

Email: bindu.boby@vit.ac.in

Area of Specialization: Nanoelectronics and VLSI

PUBLICATIONS:

2020

1. Y. M. Aneesh and B. Bindu, "A Physics-based Single Event Transient Pulse Width Model for CMOS VLSI Circuits," in *IEEE Transactions on Device and Materials Reliability*, doi: 10.1109/TDMR.2020.3023285.
2. M. Pappiah and B. Bobby, "Capacitor-less FVF low drop-out regulator with active feed-forward compensation and efficient slew-rate enhancer circuit," in *IET Circuits, Devices & Systems*, vol. 14, no. 6, pp. 853-859, 9 2020, doi: 10.1049/iet-cds.2019.0495.
3. P. Manikandan, B. Bindu, "Dual-summed flipped voltage follower LDO regulator with active feed-forward compensation," in *AEU - International Journal of Electronics and Communications*, vol 123, 2020, 153314, ISSN 1434-8411,doi:10.1016/j.aeue.2020.153314.
4. P. Manikandan, B. Bindu, "A push-pulled capacitor-less FVF LDO with active feed-forward compensator," *International Journal of Electronics*, DOI: 10.1080/00207217.2020.1793413,2020
5. K. R. Pasupathy, B. Bindu, "Sensitivity of SET Pulse-Width and Propagation to Radiation Track Parameters in CMOS Inverter Chain," in *IETE Journal of Research*, doi: 10.1080/03772063.2020.1787875
6. P. Manikandan, B. Bindu, "A Cap-less Voltage Spike Detection and Correction Circuit for Low Dropout Regulator," in *Journal of Circuits, Systems and Computers*, doi: 10.1142/S0218126620200091
7. SR Sriram, B Bindu, "A physics-based model for LER-induced threshold voltage variations in double-gate MOSFET," *Journal of Computational Electronics*, Vol 19,Issue 2,pp.622-630,2020

8. P Manikandan, B Bindu, "High PSR Capacitor-Less LDO with Adaptive Circuit for Varying Loads", in *Journal of Circuits, Systems and Computers*, vol 29, no 11, pp 2050178:1-12,2020

2019

1. Y. M. Aneesh, S. R. Sriram, K. R. Pasupathy and B. Bindu, "An Analytical Model of Single-Event Transients in Double-Gate MOSFET for Circuit Simulation," in *IEEE Transactions on Electron Devices*, vol. 66, no. 9, pp. 3710-3717, 2019, doi: 10.1109/TED.2019.2926883.
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3. Pasupathy K.R., Bindu B., "Analysis of bipolar amplification due to heavy-ion irradiation in 45 nm FDSOI MOSFET with thin BOX and ground plane," *Microelectronics Reliability*, Vol 98, pp 56-62, 2019, ISSN 0026-2714, doi:10.1016/j.microrel.2019.04.018.
4. S. R. Sriram and B. Bindu, "Analytical Model for RDF-Induced Threshold Voltage Fluctuations in Double-Gate MOSFET," in *IEEE Transactions on Device and Materials Reliability*, vol. 19, no. 2, pp. 370-377, June 2019, doi: 10.1109/TDMR.2019.2910197.
5. Sriram, S.R., Bindu, B" A physics-based 3-D potential and threshold voltage model for undoped triple-gate FinFET with interface trapped charges," *J Comput Electron* 18, 37–45,2019,https://doi.org/10.1007/s10825-018-1260-3
6. Aneesh, Y. & Kr, Pasupathy & Bobby, Bindu. (2019). Design and Optimization of Double-Gate MOSFET to Reduce the Effects of Single Event Transients: Proceedings of IWPSD 2017. 10.1007/978-3-319-97604-4_91.

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2. S. R. Sriram and B. Bindu, "Study of Line Edge Roughness Induced Threshold Voltage Fluctuations in Double-Gate MOSFET," *2018 15th IEEE India Council International Conference (INDICON)*, Coimbatore, India, 2018, pp. 1-5, doi: 10.1109/INDICON45594.2018.8987069.
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2017

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2. Pasupathy K. Ramaniharan, Bindu Bobby. (2017) Widening and narrowing of time interval due to single-event transients in 45 nm vernier-type TDC. IET Circuits, Devices & Systems 11:6, pages 676-681.
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6. S. R. Sriram and B. Bindu, "Impact of NBTI induced variations on FinFET based Vernier delay line time to digital converter," *2017 International Conference on Nextgen Electronic Technologies: Silicon to Software (ICNETS2)*, Chennai, 2017, pp. 122-125, doi: 10.1109/ICNETS2.2017.8067912.

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2. A Narendiran, K Akhila, B Bindu,” A Physics-Based Model of Double-Gate Tunnel FET for Circuit Simulation,” *IETE Journal of Research*, vol 62, no 3,pp 387-393,2016
3. Sriram S.R., Bindu B.,” Impact of NBTI induced variations on delay locked loop multi-phase clock generator,” *Microelectronics Reliability*, vol 60, pp 33-40, 2016, ISSN 0026-2714, doi:10.1016/j.microrel.2016.02.002.

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