

ENEE 303 Fall 2012 10/24-12/06/12

All dates shifted one period later than listed below due to hurricane Sandy

Paper Choices

Name/Paper	Email address	presentation Dates	Commentating dates
Ahanotu, Longinus C		Tu 10/30/12 d) Th 11/08/12 d)	Tu 11/27/12e)RWN
Alireza Khaligh, "A Multiple-input Dc-Dc Positive Buck-Boost Converter Topology," Proceedings of the IEEE Conference on ???< IEEE 2008, pp. 1522 - 1526.			
Aquino, James P		Tu 11/06/12 e) Tu 11/20/12 c)	<del>Th 11/08/12 c)</del> Tu 11/27/12 f)
Brian Goldstein, Donsoo Kim, Jian Xu, T. Kyle Vanderlick and Eugenio Culurciello," CMOS Low Current Measurement System for Biomedical Applications," Vol. 6, No. 2, April 2012, pp. 111 - 119.			
drop <del>Au, Khang</del>		<del>Tu 10/30/12i)RWN</del> <del>Th 11/08/12e)RWN</del>	<del>Tu 11/27/12 f)</del>
Ramiz Daniel, Sung Sik Woo, Lorenzo Turicchia and Rahul Sarpeshkar, "Analog Transistor Models for Bacterial Genetic Circuits," Proceedings of the IEEE Conference on ???, IEEE 2011, pp. 333 - 336.			
Baicar, Tyler Alan		Th 11/01/12 f) Th 11/29/12 e)	Tu 12/06/12 b)
Kobcvhai Dejhan, Paiboon Tooprakai, Somsak Mitatha, Fusak Cheevasuvit, and Chatcharin Soonyeeakan, "1V Full Swing Bootstrapped CMOS Inverter Circuit," Proceedings of ICSE2002, 2002, Penang, Malaysia, pp. 275 - 278.			
Barham, Oliver		Tu 10/30/12 c) Th 11/08/12 c)	Tu 12/06/12 a)
Alireza Khaligh and Zhihao Li, "Battery, Ultracapacitor, Fuel Cell, and Hybrid Energy Storage Systems for Electric, Hybrid Electric, Fuel Cell, and Plug-In Hybrid Electric Vehicles: State of the Art," IEEE Transactions on Vehicular Technology, Vol. 59, No. 6, July 2010, pp. 2806 - 2814.			
Beecher, Timothy Allen		Tu 10/30/12h)RWN Tu 11/13/12e)RWN	Tu 11/27/12 c)RWN
Eiichi Funatsu, Yoshikazu Nitta, Yaunari Miyake, Takashi Toyoda, Jun Ohta and Kazui Kyuma, "An Artificial Retina Chip with Current-Mode Focal Plane Image Processing Functions," IEEE Transactions on Electron Devices, Vol. 44, No. 10, October 1997, pp.. 1777 - 1782.			
Bumpas, Taylor Jaclyn		Tu 11/06/12 b) Tu 12/06/12 d)	Tu 11/13/12 d)
M. K. McPhun, "Some Advantages of Silicon Transistors in Circuit Design," The Institution of Electrical Engineers, paper No. 3671 M, September 1961, pp. 570 - 575.			
Carter, Nicholas Anthony		Tu 11/06/12 c) Tu 12/06/12 c)	Th 11/29/12 f)
Mohammed Ismail and John Prigeon, "A Novel Technique for Designing Continuous-Time Filters in MOS Technology," Proceedings of the IEEE ISCAS'88, IEEE 1988, pp. 1665 - 1668.			
Chan, Cheong		Th 11/01/12 b) Tu 11/20/12 d)	Tu 11/20/12 e)

Robert M. Fox, Sang-Gug Lee and David T. Zweidinger, "The Effects of BJT Self-Healing on Circuit Behavior," IEEE Journal of Solid-State Circuits, Vol. 26, No. 6, June 1961, pp. 678 - 685.			
[replaced by above 09/20/12] Saurav Bandyopadhyay and Anantha P. Chandrakasan, "Platform Architecture for Solar, Thermal, and Vibration Energy Combining with MPPT and Single Inductor," IEEE Journal of Solid-State Circuits, Vol. 47, No. 9, September 2012, pp. 2199 - 2215.			
Chen, Jacob		Tu 10/30/12g)RWN Tu 11/27/12a)RWN	<del>Tu 11/27/12 b)RWN</del> Tu 11/13/12 f)RWN
C. T. Chuang, K. Chin, P. F. Lu and H. J. Shin, "High-Speed Low-Power Darlington ECL Circuit," Digest of papers of the 1992 Symposium on VLSI Circuits, pp. 9-1 - 9-2.			
Cherner, Marissa Jaclyn		Tu 11/06/12 m) Tu 12/04/12 f)	Tu 12/06/12 d)
Ezzat G. Bakhoun, "On the role of transistors in OpAmp feedback paths," International Journal of Electronics, Vol. 96, No. 1, January 2009, pp. 43 - 49.			
Cho, Joohyun Sarah		Th 11/01/12 g) Th 11/15/12 d)	Th 11/29/12 b)
Ho-Jun Song and Choong-Ki Kim, "An MOS Four-Quadrant Analog Multiplier Using Simple Two-Input Squaring Circuits with Source Followers," IEEE Journal of Solid-State Circuits, Vol. 25, No. 3, June 1990, pp. 841 - 848.			
Csipo, Magdalena G		Th 11/01/12 o) Th 11/29/12 a) → Tu 12/11/12 f)	Tu 11/20/12 c)
K. I. Sharma, "A New Approach in Transistor T.V. Deflection Circuits," Proceedings of the IEE-IERE-India, March-April, 1972, pp. 38 - 41.			
Cwalinski, Mark Robert		Tu 10/30/12 j) Th 11/15/12 e)	Ty 12/04/12 c)
D. Xie, M. Parameswaran and I. Filanovsky, "A Simple CMOS Power Stabilizer for Integrated Sensor Applications," Proceedings of the IEEE Conference, CCECE/CCGEI, 1993, pp. 1178 - 1179.			
drop <del>Fernando, Nathaniel Peter</del>		<del>Tu 10/30/12f)RWN</del> <del>Tu 11/27/12b)RWN</del>	Th 11/15/12 f)RWN
Goldstein, Jeffrey Lefton		Th 11/01/12 n) <del>Th 11/15/12 f)</del> Tu 11/13/12 f)	Th 11/15/12 c)
M. Vesterbacka, "A New Six-Transistor CMOS XOR Circuit with Complementary Output," Proceedings of the Conference on ???, IEEE 1999, pp. 796 - 799.			
drop <del>Gonaduwege, Eranga Aishan</del>		<del>Th 11/01/12 e)</del> <del>Tu 11/13/12 f)</del>	Tu 11/20/12 d)
Yassin Elechnerif and Pen-Min Lin, "Transient Analysis and Sensitivity Computation in Piecewise-Linear Circuits," IEEE Transactions on Circuits and Systems, Vol. 38, No. 12, Decemember 1991, pp. 1525 - 1533.			
Halpert, Kevin William		Tu 10/30/12e)RWN Tu 11/27/12c)RWN	Th 11/15/12 e)RWN
M. Hosseinghadiry, H. Mohammadi and M. Nadisenejani, "Two New Low Power High Performance Full Adders with Minimum Gates," International Journal of Electronics, Circuits and Systems, Vol. 3, No. 2, 2009, pp. 124 - 131.			
Jain, Parakh		Th 11/01/12 c) Th 11/15/12 c)	Th 11/15/12 d)
Jyh-Ming, Sung-Chuan Fang and Wu-Shiung Feng, "New Efficient Designs for XOR and XNOR Functions on the Transistor Level," IEEE Journal of Solid-State Circuits, Vol. 29, No. 7, July 1994, pp. 780 - 786.			
Jih, Yvonne		Th 11/01/12 p) Th 11/29/12 b)	Th 11/15/12 b)

Hamid Jabbar, Young S. Song and Taikyeong Ted. Jeong, "RF Energy Harvesting System and Circuits for Charging of Mobile Devices," IEEE Transactions on Consumer Electronics, Vol. 56, No. 1, February 2010, pp. 247 - 253.			
drop Kagan, Lukas Oliver		<del>Tu 10/30/12k)RWN</del> <del>Tu 11/27/12d)RWN</del>	<del>Th 11/15/12 a)RWN</del>
Khan, Shoaib		Tu 10/30/12l)RWN Tu 12/06/12 b)	Th 11/29/12 d)
H. V. Jayashree and K. Rarsha, "Four BIT CMOS Full Adder in Submicron Technology with Low Leakage and Ground Bounce Noise Reduction," ????, 5 pages.			
Kinchen, George H		Th 11/01/12 j) Tu 12/04/12 a)	Tu 11/20/12 b)
Fan Zhang, Efstratios Skafidas and William Shieh, "A 60-GHz Double-Balanced Gilbert Cell Down-Conversion Mixer on 130-nm CMOS," Proceedings of the 2007 IEEE Radio Frequency Integrated Circuits Symposium, pp. 141 - 144.			
Lan, Ruitao		Tu 11/06/12 h) Tu 12/04/12 d)	Th 11/08/12 f)
Reza Golparvar Roozbahani, "BJT-BJT, FET-BJT, and FET-FET On Improving the Gain-Bandwidth Product of Cascode Configurations," IEEE Circuits and Devices Magazine, November/December 2004, pp. 17 - 22.			
Luo, Christopher A		Tu 11/06/12 i) Tu 12/04/12 c)	Tu 12/06/12 e)
K. W. Eccleston, "Four-transistor interleaved Doherty amplifier," Electronics Letters, Vol. 45, No. 15, July 16, 2009, pp. ??.			
Mawhinney, Andrew Ryan		Tu 11/06/12 p) Tu 11/13 12 b)	Tu 11/27/12 a)
Rajeev Kumar and Vimal Kant Pandey, "A new 5-transistor XOR-XNOR Circuit Based on the Pass Transistor Logic," Proceedings of the IEEE Conference on ???, IEEE 2011, pp. 667 - 671.			
McLoughlin, Danielle Nicol		Th 11/01/12 m) Th 11/15/12 b)	Tu 12/04/12 f)
S. C. Chao, "A Generalized Resistor-Transistor Logic Circuit and Some Applications," IRE Transactions on Electronic Computers, March 1959, Vol. ??, No. ??, pp. 8 - 12.			
Mushtaq, Hammad K		Tu 11/-6/12 n) Tu 11/13/12 c)	Tu 11/13/12 e)RWN
Goran Krilic, "Spotlight on Memory," IEEE Circuits and Devices Magazine, September/October 2004, pp. 18 - 24.			
Newell, Alejandro M		Tu 10/30/12m)RWN Tu 11/27/12e)RWN	Tu 12/06/12 c)
Paul D. Smith, David W. Graham, Ravi Chawla and Paul Hasler, "A Five-Transistor Bandpass Filter Element," Proceedings of ISCAS 2004, pp. I-861 - I-863.			
Parker, Matthew James		Tu 10/30/12n)RWN Th 11/08/12 f)	Tu 11/13/12 b)RWN
Emre Arsian, Bilgin Metin, Hakan Kuntman, and Oguzhan Cleekoglu, "MOS-only second order current-mode LP/BP filter," Analog Integrated Circuits and Signal Processing, August 29, 2012, Springer online, 5 pages.			
Peitsch, Ryan Scott		Th 11/01/12 k) Tu 11/13/12 d)	<del>Tu 12/04/12 e)</del> Th 11/15/12 a)RWN
Francesco Gambini, Massimo Conti, Simone Orcioni, Franco Ripa and Marco Caldari, "Physical modeling in System C-WMS and real time synthesis of electric guitar effects," Physical Modeling ??? 14 pages.			
Percivall, Joseph Daniel		Tu 11/06/12 j) Tu 11/13/12 e)	<del>Tu 11/27/12 d)</del> Th 11/15/12 a)RWN
W. Marshall Leach, Jr., "Fundamentals of Low-Noise Analog Circuit Design," Proceedings of the IEEE, Vol. 82, No. 10, October 1994, pp. 1515 - 1538.			
Petro, Timothy Joe		Tu 11/06/12 g) Tu 12/04/12 e)	Th 11/29/12 e)

Raguvaran, E., Deepak Prasath, N., Alexander, J. Prithiviraj, N. and Santhanalakshmi, M., "A Very-High Impedance Current Mirror for Bio-medical Applications," Proceedings of the IEEE Conference on ???, IEEE 2011, pp. 828 - 830.			
Rawat, Shivam		Th 11/01/12 h) Th 11/29/12 d)	Tu 12/04/12 a)
A. Tauro, M. Di Ciano and C. Marzocca, "An Improved Low Voltage CMOS Current Source Exploiting Positive Shunt Feedback," ???, 4 pages.			
Saina, Jacob Abraham		Tu 11/06/12 p) Tu 11/20/12 b)	Tu 11/13/12 c)RWN
Muhammad Hassan, Lawrence E. Larson, Vincent W. Leung and Peter M. Asbeck, "A Combined Series-Parallel Hybrid Envelope Amplifier for Envelope Tracking Mobile Terminal RF Power Amplifier Applications," IEEE Journal of Solid-State Circuits, Vol. 47, No. 5, May 2012, pp. 1185 - 1198.			
Shapiro, Andrew Carl		Th 11/01/12 a) Tu 12/06/12 a)	Tu 11/20/12 a)
R. T. Graveson and H. Sadowski, "Pulse Amplifiers Using Transistor Circuits," IRE Transactions, December 1958, pp. 179 - 18???			
Shi, Edward Hsiang		Tu 10/30/12o)RWN Tu 11/27/12f)RWN	Tu 11/13/12 a)RWN
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Shingari, Arsh		Th 11/01/12 d) Tu 11/20/12 e)	Tu 11/20/12 d)RWN <del>Tu 11/13/12 f)</del>
Ali Zeki and Hakan Kuntman, "Accurate active-feedback CMOS cascade current mirror with improved output swing," International Journal of Electronics, Vol. 84, No. 4, 1998, pp. 335 - 343.			
Stehley, Aaron Foust		Tu 10/30/12 a) Th 11/08/12 a)	Th 11/08/12 d)
D. Xie, M. Parameswaran and I. Filanovsky, "A Simple CMOS Power Stabilizer for Integrated Sensor Applications," Proceedings of CCECE/CCGEI'93, IEEE 1993, pp. 1178 - 1179			
Tarrant, Kevin		Tu 11/06/12 k) Tu 11/20/12 a)	Th 11/08/12 b)RWN
Sharifah Fatmdiana Wn Muhammad Hatta and Norhayati Soin, "Design of an RF BJT-Low Noise Amplifier at 1GHz," Proceedings of the ICSE2006 Conference, Kuala Lumpur, Malaysia, 2006, pp. 747 - 750. [changed to the above 11/06/12] Paul Hasler, Matt Kucic, and Bradley A. Minch, "A Transistor-Only Model of the Autozeroing Floating-Gate Amplifier," Proceedings of the IEEE Conference on ???, IEEE 1999, pp. 157 - 160.			
Tonetti, Alexander Charles		Tu 11/06/12 a) Th 11/29/12 f)	Th 11/08/12 a)
Richard R. Spencer and James B. Angell, "A Voltage-Controlled Duty-Cycle Oscillator," IEEE Journal of Solid-State Circuits, Vol. 25, No. 1, February 1990, pp. 274 - 281.			
Van Roie, Justin Thomas		Th 11/01/12 l) Th 11/15/12 a)	Tu 12/04/12 d)
Wei Li, "A Transistor-Only High Pass Filter with Adjustable Q Factor," IEEE Transactions on Circuits and Systems - I, Vol. 40, No. 2, February 1993, pp. 136 - 140.			
Vasiliou, Stephanie Adam		Tu 11/06/12 o) Tu 11/20/12 f)	Th 11/29/12 c)RWN
???			
Villalva, Pilar Francesca		Tu 11/06/12 d) Tu 12/04/12 b)	<del>Th 11/29/12 a)</del> → Tu 12/11/12 f)

<p>T. Noulis, S. Siskos, and G. Sarrabayrouse, "Noise optimized charge-sensitive CMOS amplifier for capacitive radiation detectors," IET Circuits, Devices &amp; Systems, Vol. 2, No. 3, 2008, pp. 324-334.          [changed to above 11/13/12] Yuna Shim, Chang-Wan Kim, Jeongseon Lee and Sang-Gug Lee, "Design of Full Band UWB Common-Gate LNA, IEEE Microwave and Wireless Components Letters, Vol. 17, No. 10, October 2007, pp. 721 - 723.</p>			
Yodichkas, Khristopher Jos		Tu 10/30/12 b) Th 11/08/12 b)	Tu 12/04/12 b)RWN
<p>Reto Zimmermann and Wolfgang Fichtner, "Low-Power Logic Styles: CMOS Versus Pass-Transistor Logic," IEEE Journal of Solid-State Circuits, Vol. 32, No. 7, July 1997, pp. 1 - 12.</p>			
Zhu, Simon X		Tu 11/06/12 l) Tu 12/06/12 e)	Tu 11/20/12 f)
<p>Vlastimir D. Pavlovic and Srdjan D. Djordjevic, "A novel structure of the fully differential CMOS amplifier with symmetric active load," International Journal of Electronics, Vol. 96, No. 4, April 2009, pp. 331 - 345.          [Changed to above 11/07/12] T. I. Boldvrevva, "PM and AM Noise of BJT Amplifiers with Quartz Crystal Resonator in Emitter Circuit," Proceedings of the 1999 Joint Meeting EFTF - IEEE IFCS, IEEE 1999, pp. 1188 - 1191.</p>			
Zion, Heather Holzman		Th 11/01/12 i) Th 11/29/12 c)	Th 11/08/12 c)
<p>C. Joseph Grandmaison, "Digital to Analog Conversion in Microelectronics," Proceedings of the Conference on ???, date???, pp. 309 - 315.</p>			

Number of students = 47