

Select a research paper for your project related to linear, nonlinear and/or chaotic oscillators. Send me your selected paper by email (to deanron@auburn.edu) by 5:00pm Thursday, 2/9/23. The research paper should be a journal or conference paper published within the last 5 years (2016 or later). Before the end of the semester, you will present the paper to the class in a PowerPoint format, within a time span of 5-10 min.

Some possible topics include:

- Oscillator implementations
- MEMS resonators
- Mechanical oscillating systems (vibratory, audio, thermal, etc.)
- Any chaotic oscillators
- GHz/THz oscillators
- VCOs
- PLLs/FLLs
- AGC techniques
- DDS
- Oscillators in systems (communications, radar, etc.)
- Chaotic oscillating phenomenon such as flutter
- Other applications using oscillators
- *vacuum tube oscillators*

Some possible journal and conference sites to consider:

- Chaos: <https://aip.scitation.org/journal/cha>
- IEEE Xplore: <https://ieeexplore.ieee.org/>
- ASME: <https://www.asme.org>
- IOP journals: <https://iopscience.iop.org/>
- Science Direct journals: <https://www.sciencedirect.com/>
- Elsevier journals: <https://www.elsevier.com/catalog?producttype=journal>
- AIP journals: <https://aip.scitation.org/>
- Google Scholar: <https://scholar.google.com/>