



2nd year ENSCL

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SUBJECT N°5

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Synthesis of PZT

The PZT (lead zirconate titanate) are piezoelectric ceramics. These materials have many applications in electronics. The methods of synthesis of PZT are various. The objective of the proposed project is to synthesize PZT by different ways and to characterize the synthesized solids.

The bibliographic research will focus on:

- The PZT, overview (crystal structure, composition, ...)
- The piezoelectricity, principle and applications,
- Methods of synthesis of PZT
- Physico-chemical methods of characterization.