

| Chapter 3. Preparative Methods |
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| special care in the preparation of solids: - use stoichiometric quantities |
| - pure stating materials |
| - the reaction has gone to completion |
| \hookrightarrow \because not possible to purify a solid once it has formed. |
| • in this chapter |
| - the ceramic method: simply grinding up + heating until they react |
| $igsim_{igsim}$ improve methods for the better uniformity of the reaction and |
| reducing the reaction temp. |
| - alternative method: microwave heating |
| : combustion synthesis |
| - less well-known method: using high pressures |
| : gas-phase reaction |
| - to produce pure solid: important in the semiconductor industry |
| : a single crystal |
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