

**concerted process**

Two or more *primitive changes* are said to be concerted (or to constitute a concerted process) if they occur within the same *elementary reaction*. Such changes will normally (though perhaps not inevitably) be ‘energetically coupled’. (In the present context the term ‘energetically coupled’ means that the simultaneous progress of the primitive changes involves a *transition state* of lower energy than that for their successive occurrence.) In a concerted process the primitive changes may be *synchronous* or *asynchronous*.

See also *bifunctional catalysis*, *potential-energy (reaction) surface*.  
1994, 66, 1098