|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Problem** | **FACTS Systems** | | | | | |
|  | **Shunt** | | **Series** | | **Hybrid** | |
|  | **SVC** | **STATCOM** | **SSSC** | **TCSC** | **IPFC** | **UPFC** |
| The control of the voltage (static state) | ++ | ++ | ++ | + | + | + |
| The control of the voltage (dynamic state) | ++ | ++ | ++ | + | + | + |
| Static stability | ++ | ++ | - | - | - | + |
| Dynamic Stability | ++ | ++ | - | - | - | + |
| Damping of power oscillation | ++ | ++ | ++ | ++ | + | ++ |
| Transitional stability | + | ++ | - | ++ | + | ++ |
| Power flow (static condition) | + | + | ++ | ++ | ++ | ++ |
| Limitation of the fault current | - | - | - | - | + | + |

**Table A**: Comparison of FACTS systems in terms of technical efficiency.

++: Very Good +: Sufficient -: Inappropriate