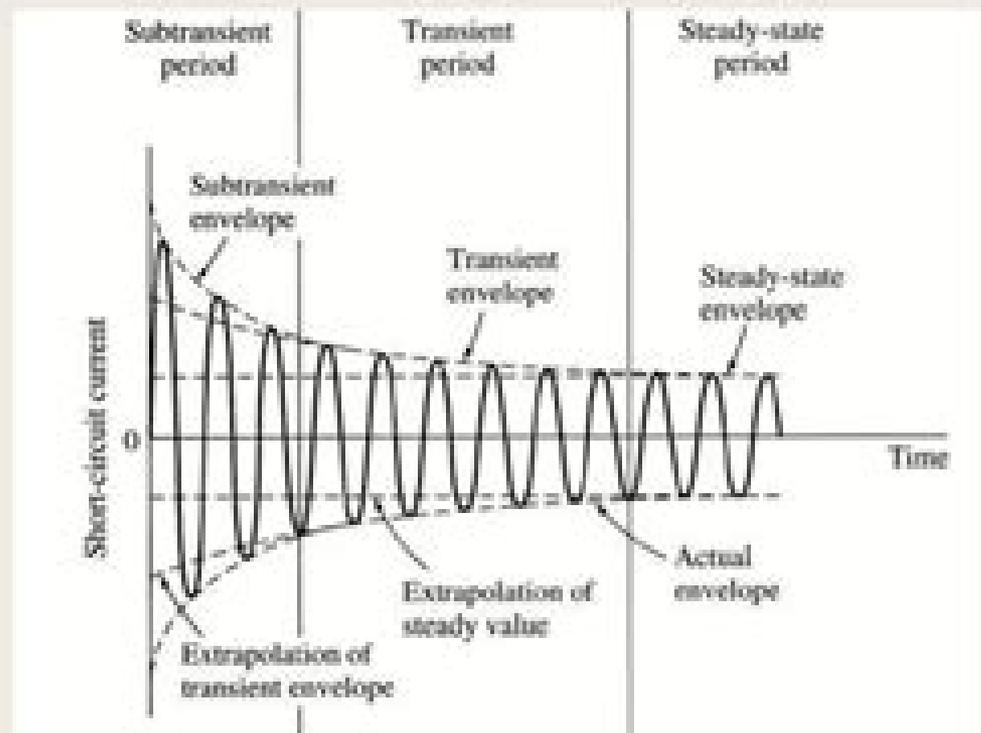


Symmetrical AC component of the fault current:

There are three periods of time:

- **Sub-transient period:** first cycle or so after the fault – AC current is very large and falls rapidly;
- **Transient period:** current falls at a slower rate;
- **Steady-state period:** current reaches its steady value.



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Symmetrical Components, as Applied to the Analysis of Unbalanced Electrical Circuits Charles Frederick Wagner, Robert David Evans, 1982

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Power Systems Modelling and Fault Analysis Nasser Tleis, 2019-06-12 *Power Systems Modelling and Fault Analysis Theory and Practice* Second Edition focuses on the important core areas and technical skills required for practicing electrical power engineers Providing a comprehensive and practical treatment of the modeling of electrical power systems the book offers students and professionals the theory and practice of fault analysis of power systems covering detailed and advanced theories and modern industry practices The book describes relevant advances in the industry such as international standards developments and new generation technologies such as wind turbine generators fault current limiters multi phase fault analysis the measurement of equipment parameters probabilistic short circuit analysis and more Includes a fully up to date guide to the analysis and practical troubleshooting of short circuit faults in electricity utilities and industrial power systems Presents sections on generators transformers substations overhead powerlines and industrial systems Covers best practice techniques safety issues power system planning and economics

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