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component

negative, positive and

zero sequence in fault

voltage and current

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Why not 6 or 12?

Symmetry vs.

Asymmetry in Graphic

Design

Find Symmetry $x, y,$

origin From a Graph

Phase Balanced vs 3

Phase unbalanced

system / load |

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Components Page 7
The power equation,
for a three phase
system, is $S = 3V_{LL}$

I_L (4.5a) $P = 3V_{LL} I_L$

$\cos \phi$? (4.5b) $Q = 3V_{LL}$

$I_L \sin \phi$? (4.5c) where

S is the apparent

power or complex

power in volt-amperes

(VA). P is the real

power in Watts (W,

kW, MW). Q is the

reactive power in

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components is used to simplify fault analysis by converting a three-phase unbalanced system into two sets of balanced phasors and a set of single-phase phasors, or symmetrical components. These sets of phasors are called the positive-, negative-, and zero-

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Symmetrical components theoretical and real-world examples ...

In electrical engineering, the method of symmetrical components simplifies analysis of unbalanced three-

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phase power systems under both normal and abnormal conditions. The basic idea is that an asymmetrical set of N phasors can be expressed as a linear combination of N symmetrical sets of phasors by means of a complex linear transformation.

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components are an essential means for analyzing fault conditions in power systems, and are routinely measured and used as operating quantities in protective relays. For example, neglecting

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load unbalance, zero-sequence current occurs with ground faults and does not occur with three-phase or line-to-line faults.

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notes should be read
together with Section
12.1 of your text.

When performing
steady-state analysis
of high voltage
transmission systems,
we make use of the
per-phase equivalent
circuit. Also, when
performing
symmetrical fault
(three-phase fault)
analysis of high-

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voltage transmission
systems, we make
use of the per-phase
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The original set of

phasors is written in

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components as

follows: $V_a = V_{a0} + V_{a1} + V_{a2}$, $V_b = V_{b0} + V_{b1} + V_{b2}$, $V_c = V_{c0} + V_{c1} + V_{c2}$, where

$V_{a0} = V_{a1} = V_{a2}$, $V_{b0} = V_{b1} = V_{b2}$, $V_{c0} = V_{c1} = V_{c2}$, where

$V_{a1} = V_{b1} + V_{c1}$, $V_{a2} = V_{b2} + V_{c2}$, where

$V_{a0} = V_{b0} + V_{c0}$, $V_{a1} = V_{b1} + V_{c1}$, $V_{a2} = V_{b2} + V_{c2}$, where

$V_{a0} = V_{b0} + V_{c0}$, $V_{a1} = V_{b1} + V_{c1}$, $V_{a2} = V_{b2} + V_{c2}$, where

$V_{a0} = V_{b0} + V_{c0}$, $V_{a1} = V_{b1} + V_{c1}$, $V_{a2} = V_{b2} + V_{c2}$, where

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$V_{a0} = V_{b0} + V_{c0}$, $V_{a1} = V_{b1} + V_{c1}$, $V_{a2} = V_{b2} + V_{c2}$, where

$V_{a0} = V_{b0} + V_{c0}$, $V_{a1} = V_{b1} + V_{c1}$, $V_{a2} = V_{b2} + V_{c2}$, where

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Among the sequence
components for a-b-c
are

Symmetrical

Components 1.

Transformation Matrix
sequence and zero
sequence. They are
called symmetrical
components because,
taken separately, they
transform into
symmetrical sets of

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properties of these
components can be
demonstrated by

transforming each one
back into phase
variables. Consider

first the positive
sequence component
taken by itself: $V_1 =$
 V (9) $V_2 = 0$ (10) V_0
 $= 0$ (11)

~~6.061 Class Notes,~~

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~~10.1 Introduction~~

When an unbalanced three-phase fault occurs, we can solve the three-phase circuit using ordinary circuit theory. This is much

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more numerically
complicated than the
single- phase circuit
normally used in
balanced three phase
circuits.

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components were developed in 1918 by C.L. Fortescue. The technique allows any unbalanced polyphase system to be decomposed into a...

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components of a 3

phase system In a 3

phase system, the

unbalanced vectors

(either currents or

voltage) can be

resolved into three

balanced system of

vectors. They are

Positive sequence

components Negative

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Figure 1 is the diagram of a balanced three-phase circuit. The impedance of the lines and loads are the same in each

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phase, and the source voltages are equal in magnitude and are 120 degrees apart.

The balanced condition allows us to treat one phase as an independent single-phase circuit.

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In general the supply
will contain some

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degree of imbalance, and symmetrical components are the standard technique to model this. If a STATCOM is being used to control reactive power, it will be...

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be protected against flow of heavy short circuit currents (which can cause permanent damage to major equipment) by disconnecting the faulty part of the system by means of circuit breakers operated by protective relaying.

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