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AIR COMPRESSORS FULL DETAIL
CONCEPT || USEFUL FOR SSC JE
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JE MECHANICAL EXAM

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Mechanical technicians will learn how to select the proper control systems for axial and centrifugal compressors for proper throughput and surge control, with a particular emphasis on surge control. Readers will learn to understand the importance of transmitter speed, digital controller sample time, and control valve stroking time in helping to prevent surge.

~~Centrifugal and Axial
Compressor Control: Gregory
K. . . .~~

The efficiency and on stream time of axial and centrifugal compressors is important for many

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production units and utility systems. Surge, in particular, can cause system downtime and increase energy use. The flow reversals every few seconds cause severe vibrations that can damage compressor seals and shafts reducing compressor efficiency.

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The efficiency and on stream time of axial and centrifugal compressors is important for many production units and utility systems. Surge, in particular, can cause system downtime and increase energy use. The flow reversals every few seconds cause severe vibrations that can damage compressor seals and shafts reducing compressor efficiency.

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Momentum Press~~

Download Centrifugal and Axial Compressor Control by Gregory K. McMillan easily in PDF format for free. The cost of machinery damage and process downtime due to compressor surge and overspeed can be from thousands to millions of dollars for large continuous chemical or petrochemical plants. This text demonstrates how to select the proper control schemes and instrumentation for centrifugal and axial compressor throughput and surge control.

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~~Centrifugal and Axial
Compressor Control by
Gregory K ...~~

Controlling Surge in
Centrifugal Compressors.
Centrifugal and axial
compressors can experience a
potentially destructive
condition known as surge.
Emerson's Mikhail Ilchenko
describes it for me. Surge
is a condition that occurs
in compressors when the
amount of gas they are
trying to compress is
insufficient for the size of
the compressor and the
blades lose their ability to
transfer energy from the
shaft to the fluid, causing
a reverse flow of the gas.

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~~Controlling Surge in
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The OptiComp* compressor control suite is GE's latest comprehensive software package for controlling centrifugal and axial compressors.

~~Axial and Centrifugal
Compressors Application
Guide~~

Centrifugal vs axial compressors. Centrifugal compressors are easier to design and manufacture compared to axial compressors. But centrifugal compressors can handle much less gas flow compared to the axial compressors.

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Centrifugal compressors can often create more differential pressure with a single compression stage.

~~Centrifugal vs axial type compressors — EnggCyclopedia~~
Compressor surge normally occurs in centrifugal and axial compressors.

Compressor surge is a cyclic event and this results in high strain in compressor bearings, seals, and the impeller. The resulting severe vibration can lead to damage of motor compressor coupling and the baseplate.

~~Understanding Centrifugal Compressor Surge and Control~~

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~~Control~~ and centrifugal compressor control is exceptionally challenging due to the extraordinary speed and severity of problems, and the extreme consequences in terms of plant safety and performance. The fastest and most dangerous phenomenon is compressor surge.

~~Compressor surge control:
Deeper understanding,
simulation ...~~

This course is designed to familiarize participants with basic concepts associated with the startup, operation, and shutdown of centrifugal and axial compressors. After

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Completing this course, participants should be able to describe the general functions of instrumentation and control devices used with centrifugal and axial compressors.

~~Compressors Operation Of Centrifugal And Axial Types~~

My book, " Centrifugal and Axial Compressor Control," reveals the path of the operating point on the unseen compressor map to the left of the surge curve and the resulting oscillations in suction flow and discharge pressure, as well as the dynamic model that will show this behavior.

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~~Fine points of compressor
surge control~~

Thus an axial compressor is better for constant flow control and a centrifugal compressor is better for constant pressure control. The steep negative slope for the axial compressor facilitates a more stable operation closer to the surge curve.

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Instructor's ...~~

Our compressor services include repair and upgrade of centrifugal and axial compressors, reverse engineering of parts, and

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both onshore and offshore
field se...

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Compressors — Engineering,
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Control engineers,
mechanical engineers and
mechanical technicians will
learn how to select the
proper control systems for
axial and centrifugal
compressors for proper
throughput and surge
control, with a particular
emphasis on surge control.
Readers will learn to
understand the importance of
transmitter speed, digital
controller sample time, and
control valve stroking time
in helping to ...

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~~Centrifugal and Axial
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K. ...~~

Many facilities employ two or more centrifugal compressors, operated in either series or parallel configurations. An accurately designed surge control system that includes multiple compressors with the associated piping systems is a vital element of a facility's design and ongoing operational integrity.

~~Tutorial T12: A New Approach
to Designing Centrifugal ...
Control & Operation of
Centrifugal Gas Compressors~~

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This hands-on, three-day course uses dynamic simulation models to give a practical introduction to centrifugal gas compressors and their operation in process plants.

~~Centrifugal Compressor
Training — ESD Simulation~~
Axial compressors are high-speed, large-volume compressors but are smaller and somewhat more efficient than comparable centrifugal compressors. The axial compressor's capital cost is higher than that of a centrifugal but may well be justified by energy cost savings in an overall evaluation.

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~~Axial Compressors – an
overview | ScienceDirect
Topics~~

The non-linear model has been deeply exploited for active surge control design and analysis in both axial and centrifugal compressors. One shortcoming of the MG model, however, lies in its constant compressor speed assumption. Until 1998, a model for axial compressors considering the B-parameter as a state was derived by Gravdahl and Egeland.

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