

Volume **IV**
**PRODUCTION OPERATIONS
ENGINEERING**

Joe Dunn Clegg, Editor



**PETROLEUM
ENGINEERING
HANDBOOK**

Larry W. Lake, Editor-in-Chief

SOCIETY OF PETROLEUM ENGINEERS



Petroleum Engineering Handbook Volume Iv

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ω represents the frequency of a sine wave when we write it this way $\sin \omega t$ if $\omega = 1$ the sin completes one cycle in 2π seconds if $\omega = 2\pi$ the sin completes one cycle sooner every 1 second for $f = 1$ if $\omega = 2\pi f$ the sin completes one cycle even faster every $1/f$ seconds or equivalently sin completes f cycles in 1 second

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