



Part 2 – Indicators and Momentum Studies

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Agenda

- MACD
- RSI
- The Stochastic Oscillator
- ATR
- Other Indicators
 - Williams %R
 - ADX/DMI
 - Parabolic SAR
 - OBV
 - Discussion/Open "forum"



- ■Moving averages are the best form of trend following indicator. The MACD is a Moving average-based hybrid. It stands for Moving Average Convergence / Divergence
- ■This indicator is simply a combination of Exponential Moving Averages (**EMA**s) of differing time periods.



■The calculation of the MACD is to first plot a 12 day Exponential Moving Average of the closing price:





■Then plot a 26 day exponential moving average of the closing price:





■Then we calculate the difference between the two averages by subtracting the value of the 26 day average from the 12 day average:





■The final step is to plot a 9 day Exponential Moving Average of this difference:





- ■The purpose of this 9 day average is to smooth the output generated by the MACD line and also to provide us with a **signal** and a **lead** line.
- ■A basic buy signal is generated when the lead line (the first / blue line) crosses above the signal line (the red line, which is the average of the lead line).
- ■A sell signal is given when the lead line has been travelling above the signal line then falls below it.