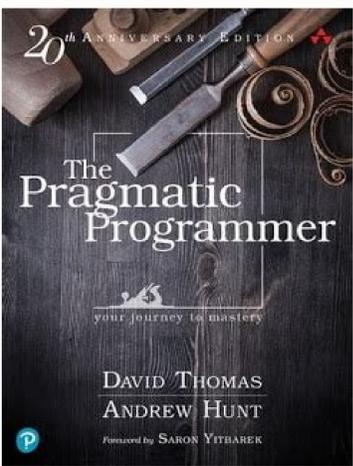


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ADAPTIVE OPTICS ENGINEERING HANDBOOK



EDITED BY
ROBERT K. TYSON



As the stock consolidated with a falling channel in late March, the 5-day SMA for StochRSI(20) dipped below .50 twice (red oval). My JP Spectrum technique uses the full Spectrum capabilities offered by RSI, which indicates the signals before the price makes any changes. Levels 80-40 mean the strength of upward momentum, and 60-20 means downward momentum. The "parameters" value specifies the number of periods used in the calculation (default is 14). A move above .80 is considered overbought, while a move below .20 is considered oversold. In other words, look for trades in the direction of the bigger trend. 14-day StochRSI would be considered a short-term indicator. In their 1994 book, The New Technical Trader, Chande and Kroll explain that RSI can oscillate between 80 and 20 for extended periods without reaching extreme levels. RSI is often misinterpreted Unfortunately, the title RSI is also the most misunderstood, misused and undervalued indicator. FIND OUT MORE ABOUT JP SPECTRUM To me, RSI is a fascinating and dynamic indicator. Chartists should also experiment with various settings and learn the nuances of StochRSI before using it in the real world. Click here to see a live example of StochRSI. The screen then selects stocks that are short-term oversold by looking for those trading below their 10-day SMA and with StochRSI(14) below .10. Chartists could also look for the stock to break back below its 10-day SMA to signal a short-term downturn. You can download the paper by clicking the button above. $StochRSI = (RSI - Lowest\ Low\ RSI) / (Highest\ High\ RSI - Lowest\ Low\ RSI)$ StochRSI measures the value of RSI relative to its high/low range over a set number of periods. First, it can be used to identify overbought or oversold conditions. A moving average can be applied by clicking the advanced options arrow (green) and adding an overlay. StochRSI reflects an uptrend when consistently above .50 and a downtrend when consistently below .50. Here these formations work perfectly. For example, 14-day StochRSI would use the current value of 14-day RSI and the 14-day high-low range for 14-day RSI. We should not tell RSI where to stop or change direction, but RSI should show us how and where we should pay attention to signals. Yahoo! broke support for confirmation, but this break did not hold as the stock surged to 18 a few days later. The indicator was created in the seventies. Momentum favors rising prices when the 10-day SMA of StochRSI is above .50 and falling prices when below .50, so when we compare RSI (14) with the graph, we compare exactly the same parameters and of course it is much easier to observe divergences. With an uptrend in place, oversold conditions were preferred to overbought conditions. Chart 6 shows Yahoo! with a bearish signal from StochRSI that did not take hold right away. In this example, chartists could look for prices to break above the 10-day SMA or for StochRSI to break above .50, its centerline. First, the medium-term trend is down because the 10-day SMA is below the 60-day SMA. Of course, divergences are a bonus here, which works great. I call RSI magical, because it can predict prices, because it can tell us where to get in and where to get out. The uptrend continued with a flag/wedge breakout and the stock advanced above 80. Chart 5 shows Yahoo! with 20-day StochRSI and its 5-day SMA for smoothing. StochRSI moved above .80 in mid-October and early November (red arrows). The Cardwell course cost me 10,000.00 USD. Most traders fall prey to the divergence concept and see it as the end or reversal of the prevailing market trend - nThere is nothing more wrong. Constance Brown's Technical Analysis for the Trading Professional takes our exploration of RSI to the next level with bull market and bear market ranges, positive and negative reversals, and projections based on RSI. This short-term signal turned into a two-month uptrend. Therefore, it is important to identify the medium-term trend when looking for overbought and oversold conditions. The immediate recovery and bounce back above 17 formed a bear trap. JP Spectrum ©2020 Determining previously "invented" levels on the RSI is wrong. Converting prices to RSI is one change. For example, a consolidation during a trend can cause the 5-day SMA of StochRSI to gyrate above/below the .50 line before continuing or reversing the trend. Andrew Cardwell's method Below is a method designed by Andrew Cardwell, author of the book "Relative Strength Index: Forecasting and Trading Strategies" and world-renowned RSI specialist. This means oversold readings are ignored and overbought readings become the focus. As a bound oscillator, the centerline is at .50. The trend did not end until the 5-day SMA moved below .50 AND Yahoo! gapped down. The built-in RSI function is the resistance that occurs at levels 33 and 66 (Wilder rounded them to 30 and 70). These overbought readings suggested that the oversold bounce could end soon. Cardwell noticed completely different levels at which RSI (14) stops or changes directions. RSI above level 70 was taken as an overbought zone and below 30 as a sell-off. It was designed as an indicator and oscillator momentum. Talk about volatility. Click here for an Excel Spreadsheet showing the start of a StochRSI calculation. Works in levels 0 and 100. Wilder created RSI as a tool to indicate the strength of the impetus and weakness of financial markets. RSI is also one of the most misunderstood and misused indicators. But does this justify the conclusion that these levels signal that the market trend is over? The first filter selects securities within a medium-term downtrend by looking for those where the 10-day SMA is less than the 60-day SMA. With each subsequent level emerging high (low) and divergences, restless investors are ready to go in to reverse the trend. These volume-based indicators do not overlap with momentum oscillators. Even though StochRSI dipped below .50 in late March, the 5-day SMA held above .50 to keep the uptrend alive until late April. This means it is important to use StochRSI with other aspects of technical analysis for confirmation. It is important to remember that StochRSI is an indicator of an indicator, which makes it the second derivative of price. As you can see, not every divergence reverses the price trend. The first filter selects securities within a medium-term uptrend by looking for those where the 10-day SMA is greater than the 60-day SMA. Traders looking to enter a stock based on an overbought or oversold reading in RSI might find themselves continuously on the sidelines. Impulse reversal signals are sometimes strong and fast. MIT can be used as a completely independent technician or as an additional aid to the investment system. This is why the end product (StochRSI) looks much different than the original (price). StochRSI became oversold at least four times from December to February. This means it is two steps (formulas) removed from the price of the underlying security. The 5-day SMA moved above .50 in mid-February just after the stock gapped higher. It is important to look for oversold conditions when the bigger trend is up and overbought conditions when the bigger trend is down. Table of resistance coefficient occurring on the RSI RSI value Coefficient of resistance 90 UP / DOWN = 10/1 80 UP / DOWN = 4/1 75 UP / DOWN = 3/1 66.6 UP / DOWN = 2/1 50 UP / DOWN = 1/1 NEUTRAL BALANCE 33.3 UP / DOWN = 1/2 25 UP / DOWN = 1/3 20 UP / DOWN = 1/4 10 UP / DOWN = 1/10 This table clearly shows that the RSI value meets with increasing resistance when approaching the extreme values of 0 and 100. An increase of 10 points in the RSI from 75 to 85 must correspond to the upward movement, which is much more significant than the upward movement corresponding to the 10 point shift of the RSI from 50 to 60. Unfortunately, not all signals are this picture perfect. What does it do As a completely independent trading technique, RSI can be used to identify: the direction of impetus, support and resistance, divergence, changes in momentum (but not trend strength), reverse swings, setting target prices Price Targeting). The gap and moving average cross above .50 were short-term bullish signals. The impetus and price corrections, when they become reality, are usually sharp and violent. Cardwell noticed that RSI (14) very often goes above level 70 and below 30. So you can see perfectly well that the more impetus the RSI (14) increases much higher than the recommended levels Wildera. If a trader tried to take positions based solely on divergences, he would need a deep pocket and would eventually exhaust his capital. Was it worth the price? Chart 3 shows Flour Corp (FLR) within a downtrend and StochRSI registering overbought readings. However, oversold is not the same thing as bullish; oversold conditions instead serve as a warning to watch for a bounce. In a nutshell, these are some of the most important things RSI can tell us:â€¢RSI can tell us whether the price is likely to go up or down (momentum). The StochRSI indicator can be charted as an indicator using the SharpCharts tool. Chartists can also employ other complementary indicators, such as On Balance Volume (OBV) or the Accumulation Distribution Line. Chande and Kroll developed StochRSI to increase sensitivity and generate more overbought/oversold signals. There will be more overbought/oversold readings, more centerline crosses, more good signals and more bad signals. Notice that 80 and 20 are used for overbought and oversold instead of the more traditional 70 and 30. After these short breaks, the market is ready to resume the normal upward (downward) trend. It is available on all popular transaction platforms, and in recent years is clearly gaining popularity. There will be whipsaws, even when using a 5-day SMA with 20-day StochRSI. The most important issue: settings and levels must be edited. The drag coefficient effect in RSI becomes clearly visible above level 66.6 and below level 33.3, where RSI must move in an increasingly steep slope. First, the medium-term was deemed up because the 10-day SMA was above the 60-day SMA. â€¢RSI can warn us through divergences, when a trend is beginning to change (slowdown of momentum).â€¢RSI can give us trend continuation signals through positive and negative reversals (Andrew Cardwell's brainchildren).â€¢RSI can even help us set price objectives for negative and positive reversals (again Andrew Cardwell's discovery)â€¢RSI can pretty accurately tell in advance whether a breakout is going to happen in a channel or a pattern (because it is a leading indicator)â€¢RSI can tell us when to buy and when to sell (this was the whole purpose for which Wilder invented it)â€¢And if you take the trouble of using a screener on RSI signals, RSI can even give you a list of good buying options too.Not a bad idea! If an indicator can tell us all this, don't you think we should know more about it! Developed by Tushar Chande and Stanley Kroll, StochRSI is an oscillator that measures the level of RSI relative to its high-low range over a set time period. For short-term trend identification, it can help to lengthen the calculation period and apply a short moving average to smooth the data. StochRSI has characteristics similar to most bound momentum oscillators. Technical Analysis for the Trading Professional Constance Brown The 5-day SMA for 20-day StochRSI moved below .50 to turn momentum bearish the second week of October. Wouldn't it be great if any divergence meant a reversal of the price trend? Yes of course. StochRSI is quite a volatile oscillator that frequently becomes overbought and oversold. A falling flag/wedge formed in late February. These dips proved short-lived as the stock broke channel resistance and StochRSI moved above .80 to show strength. Construction of the RSI indicator Wells Wilder (Trend Research, Hendersonville NC) is the author RSI. StochRSI is like RSI on steroids. If you don't believe me, at least believe Andrew Cardwell, who has said, "I haven't found anything in over thirty years of work that can hold a candle to what RSI can do." Most of the other indicators like moving averages are lagging indicators, as they lack predictive power.On the other hand, RSI is a leading indicator which can give significant clues about future prices, if we have the ability to decode them. Divergences divergence it is a divergence of price and impetus that helps identify extreme conditions in a market situation. 14-day StochRSI equals .2 when RSI is near the low of its 14-day high-low range. [type = stock] AND [country = US] AND [Daily SMA(20,Daily Volume) > 40000] AND [Daily SMA(60,Daily Close) > 10] AND [Daily SMA(10,Daily Close) < Daily SMA(60,Daily Close)] AND [Daily Stoch RSI(14) > 0.9] AND [Daily Close > Daily SMA(10,Daily Close)] For more details on the syntax to use for StochRSI scans, please see our Scan Syntax Reference in the Support Center. I used the Cardwell method for many years with excellent effects. RSI produces relatively fewer signals and StochRSI dramatically increases the signal count. [type = stock] AND [country = US] AND [Daily SMA(20,Daily Volume) > 40000] AND [Daily SMA(60,Daily Close) > 10] AND [Daily SMA(10,Daily Close) > Daily SMA(60,Daily Close)] AND [Daily Stoch RSI(14) < 0.1] AND [Daily Close < Daily SMA(10,Daily Close)] This scan starts with stocks that have an average price of \$10 or greater over the last three months and average volume greater than 40,000. The chart above shows how the momentum behaves, and hence the price. Others may consider it a momentum oscillator only, which works more effectively in a range-bound market, but trust me, it can give you significant signals even in trending markets. Unfortunately this is not the case. important: At extreme levels, we pay special attention to candle formations. Chart 4 shows Chevron (CVX) with 20-day StochRSI and a 5-day SMA of the indicator. You can write forever about divergences and we will come back to this issue in one of the following paragraphs. Even though Yahoo! surged, the 5-day SMA for StochRSI remained below .50 and momentum did not confirm. Hence, drawing trend lines at the tops and holes gives much earlier signals of trend reversal. The screen then selects stocks that are short-term overbought by looking for those trading above their 10-day SMA and with StochRSI(14) above .90. Confirmation came when StochRSI moved back below .50 (red dotted lines). It is extremely easy for novices to start trading with the recommended settings and without any education or delving into the construction of a given indicator - the desire to earn profits is stronger than gaining additional knowledge. Converting RSI to the Stochastic Oscillator is the second change. For what it's worth, 14-day RSI did not become oversold during this timeframe because it is less sensitive. Second, it can be used to identify the short-term trend. Price has undergone two changes to become StochRSI. The line chart is determined at the closing price. StochRSI applies the Stochastics formula to RSI values, rather than price values, making it an indicator of an indicator. The number of periods used to calculate StochRSI is transferred to RSI in the formula. However, many discrepancies can develop on strong market trends that only lead to a correction of the market situation. 14-day StochRSI equals .80 when RSI is near the high of its 14-day high-low range. I have determined several divergences on the chart above. 14-day StochRSI equals .5 when RSI is in the middle of its 14-day high-low range. A catalyst is still needed to solidify the low and signal an actual upturn. This was followed by a resistance breakout for Yahoo! on the first day of March. 14-day StochRSI equals 0 when RSI is at its lowest point for 14 days. Cardwell also uses moving averages for RSI (14), which gives additional information about the reversal of momentum. Hence new levels (80, 60, 40 and 20) that reflect the actual market situation. The subsequent gap above 17.50 turned out to be an exhaustion gap as Yahoo! failed at resistance (18), filled the gap, broke support again and moved sharply lower into November. As you can see, the recommended levels by Wilder do not apply here. The moving average broke above .50 in mid-February to turn momentum bullish. Loading PreviewSorry, preview is currently unavailable. Remember, however, that not every divergence is suitable for trading. The result is an oscillator that fluctuates between 0 and 1. Notice how CVX found support in the gap zone. Chart 2 shows Boeing in a medium-term uptrend with StochRSI(14) becoming oversold in January and February. 14-day StochRSI equals 1 when RSI is at its highest point for 14 days. RSI indicator (from Relative Strength Index) is probably one of the most dynamic and powerful indicators available to the trader. Trend identification is the key to successfully choosing between overbought and oversold levels. Speed comes at a price. Some methods of Andrew Cardwell, her RSI mentor, are also explained and refined in this book. The examples above use gaps, support/resistance breaks, and price patterns to confirm StochRSI signals. This scan starts with stocks that have an average price of \$10 or greater over the last three months and average volume greater than 40,000. For a long time, the price remains in a sideways trend, then there is a drop in price to 20 and a sharp rise to 80. The indicator can be set above, below or behind the underlying price plot. Because this indicator is quite volatile, some smoothing with a moving average can help for short-term trend identification. This scan often returns many stocks and further refinement may be needed. If we look more closely, it can be seen exactly how RSI (14) indicates these impetus forces in the chart below.



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