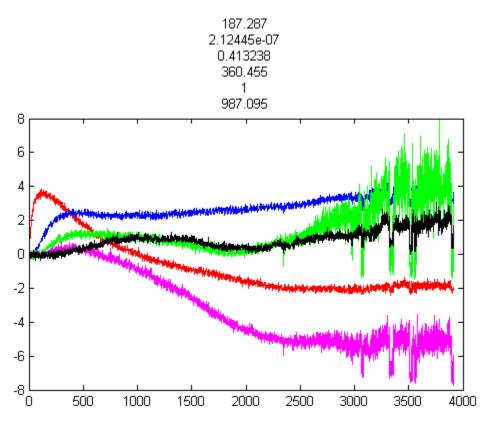
#### **Table of Contents**

	1
Calculate sum of errors squared.	
Calculate error per degree of freedom. Since we have so many points we ignore the number of	
parameter values.	. 2
Calculate approximate uncertainty of each measurement.	. 2
Parameters of this fit: [k kcInner epsInner kcOuter epsOuter c]	. 2
Plot results.	2

[F, T] = transientFinDiffFuncNonLin(x, readings, tOffset, reading1, readingF, ...
 offsets2, amb1, Pin, eq, iceEnd, blackRod, moistRod);



## Calculate sum of errors squared.

1.2364e+05

errsum = sum(sum(F.^2))
 errsum =

### Calculate error per degree of freedom. Since we have so many points we ignore the number of parameter values.

## Calculate approximate uncertainty of each measurement.

```
uncertainty = sqrt(errSumPer)

uncertainty =
5.6232
```

# Parameters of this fit: [k kclnner epslnner kcOuter epsOuter c]

### Plot results.

```
factors = [2 factors(1:5)];
    offsets = [0 offsets(1:5)];
end
figure(2);
hold off
for i=1:6
    lines(i) = plot(squeeze(readings(3, i, :)), (squeeze(readings(1, i, :)) ...
        - offsets(i)) / factors(i) - offsets2(i), colors(i+1-amb1));
    hold on
    if(i < 6)
        plot((1:length(T(:, i)))+tOffset, T(:, sensorPos(i)), colors(i+1));
        if(i < 2); errorbar(length(T(:, i))+tOffset, T(length(T(:, i)), ...</pre>
                sensorPos(i)), uncertainty); end;
    end
end
hold off;
if(amb1)
    legend(lines, 'ambient', '1', '2', '3','4', '5', 'Location', 'northwest');
    legend(lines, '1', '2', '3', '4', '5', 'ambient', 'Location', 'northwest');
end
xlabel('{\it t} (s)')
ylabel('{\dot T} (C)')
set(gca, 'FontSize', 14)
set(gca, 'FontName', 'Times New Roman')
```

