

% Figure 1 – 5G/4G Throughput Comparison from Literature

```
labels = {'5G Median (Narayanan 2020)', ...
          '4G Median (Narayanan 2020)', ...
          '5G Peak (Narayanan 2020)', ...
          '5G Urban Mobility (Fernández 2023)'};

values = [1467, 167, 1800, 400]; % Mbps

figure;
bar(values);
set(gca, 'XTickLabel', labels, 'XTickLabelRotation', 25);
ylabel('Throughput (Mbps)');
title('Figure 1: Reported 5G/4G Throughput from Literature');
grid on;
```

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% Figure 2 – 5G Latency from Literature

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labels = {'PHY DL Latency (Fezeu 2023)', ...
          'PHY UL Latency (Fezeu 2023)', ...
          'First-hop RTT (Narayanan 2020)', ...
          'End-to-End RTT (Narayanan 2020)'};

values = [0.09, 0.76, 28, 56]; % ms

figure;
bar(values);
set(gca, 'XTickLabel', labels, 'XTickLabelRotation', 25);
ylabel('Latency (ms)');
title('Figure 2: 5G Latency Measurements from Literature');
grid on;
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% Figure 3 – 5G C/N0 in Urban and Indoor Environments

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labels = {'Urban LOS', 'Urban NLOS', 'Indoor'};
values = [40 25 30];

figure;
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hBar = bar(values);
hAx = gca;

set(hAx, 'XTick', 1:numel(values));
set(hAx, 'XTickLabel', labels);

ylabel('C/N0 (dB-Hz)');
title('Figure 3: 5G C/N0 Measurements (Kassas et al., 2021)');
grid on;

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% Figure 4 – Handover Interruption Time Comparisons

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labels = {'IET Range', 'Ericsson', 'Abdulkarem'};
values = [80, 90, 15]; % representative values

% Error bars: IET = 10–150 ms (midpoint = 80 ms, ±70)
lower_err = [70, 0, 0];
upper_err = [70, 0, 0];

figure;
bar(values);
hold on;
errorbar(1:3, values, lower_err, upper_err, 'k.', 'LineWidth', 1.2);
hold off;

set(gca, 'XTickLabel', labels);
ylabel('Handover Interruption Time (ms)');
title('Figure 4: Reported Handover Interruption Times from Literature');
grid on;

```