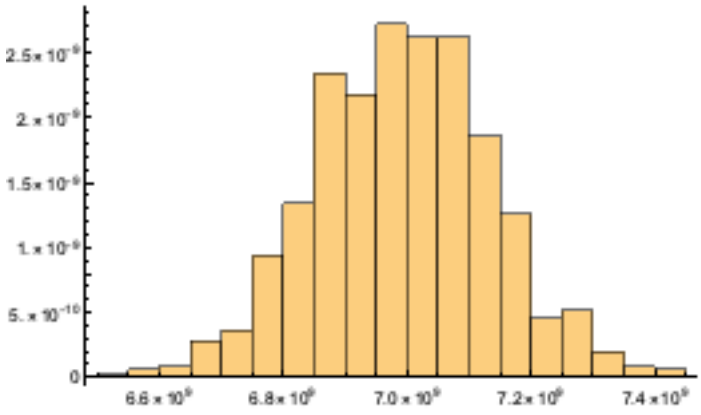
In[124]:=
```
Wpdata = RandomVariate[NormalDistribution[7 × 10^9, 2 / 100 × 7 × 10^9], 1000];
Crdata = RandomVariate[NormalDistribution[0.0001, 0.25 × 0.0001], 1000];
Midata = RandomVariate[NormalDistribution[0.0001, 0.25 × 0.0001], 1000];
Tkdata = RandomVariate[LogNormalDistribution[-2, 0.25 × 2], 1000];
Fodata = RandomVariate[LogNormalDistribution[2.5, 0.25 × 2.5], 1000];
Fidata = RandomVariate[LogNormalDistribution[2.5, 0.25 × 2.5], 1000];
Dtdata = RandomVariate[UniformDistribution[{0.85, 0.99}], 1000];
Audata = RandomVariate[NormalDistribution[0.01, 12.5 / 100 × 0.01], 1000];
```

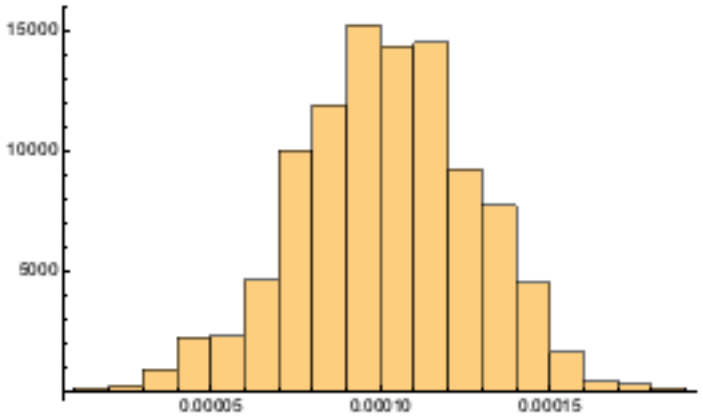
In[133]:=
```
Histogram[Wpdata, 20, "PDF"]
```

Out[133]=



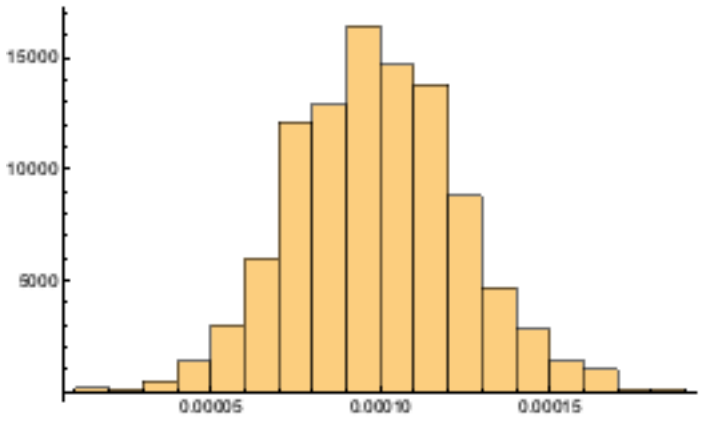
In[66]:=
```
Histogram[Crdata, 20, "PDF"]
```

Out[66]=



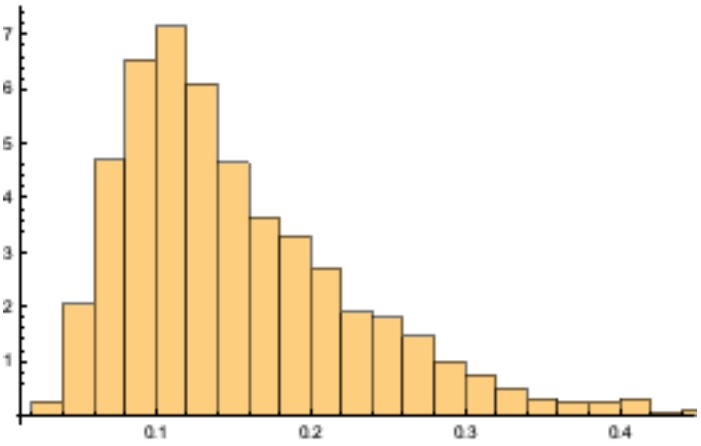
In[70]:=
```
Histogram[Midata, 20, "PDF"]
```

Out[70]=



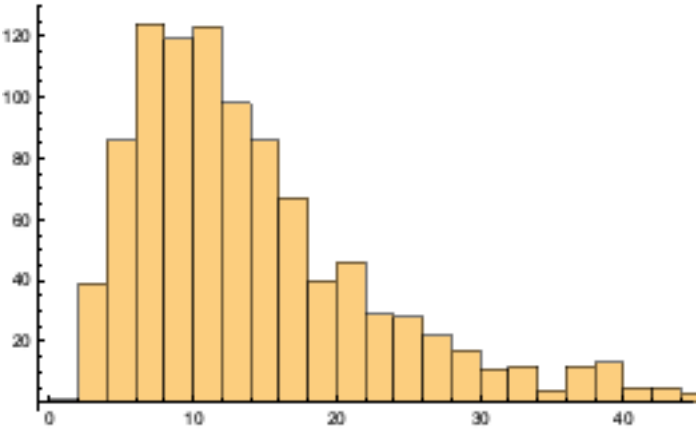
In[77]:=
```
Histogram[Tkdata, 20, "PDF"]
```

Out[77]=



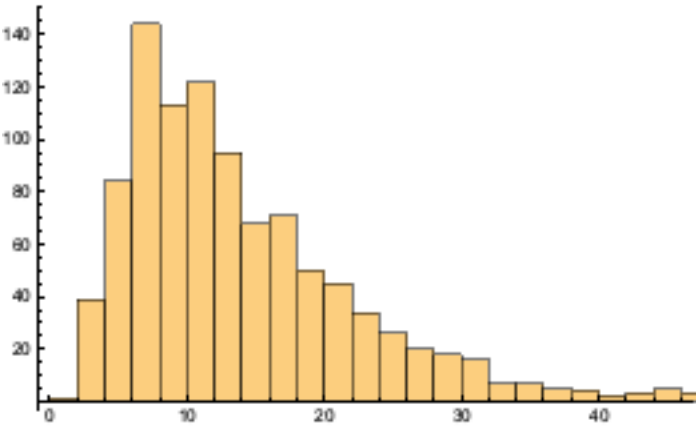
In[92]:=
```
Histogram[Fodata]
```

Out[92]=



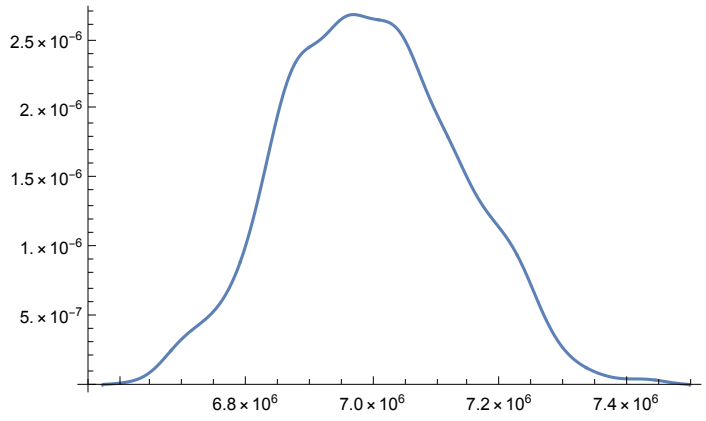
In[93]:=
```
Histogram[Fidata]
```

Out[93]=



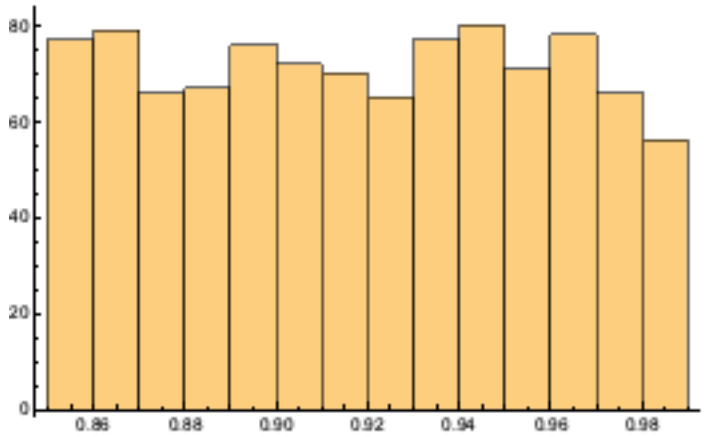
In[63]:=
```
SmoothHistogram[Wpdata]
```

Out[63]=



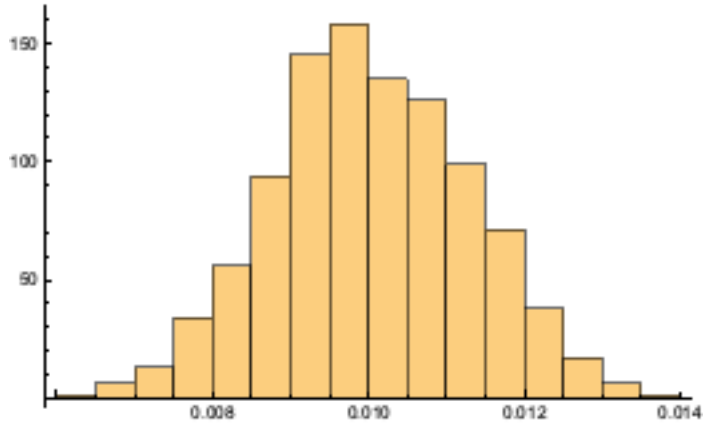
In[108]:=
```
Histogram[Dtdata]
```

Out[108]=



In[117]:=
```
Histogram[Audata]
```

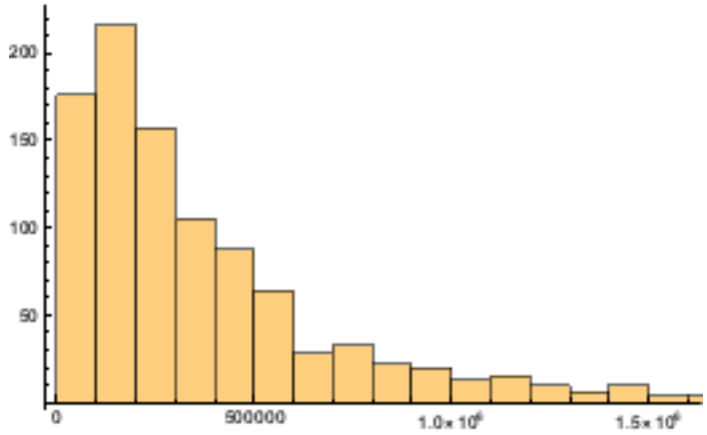
Out[117]=



In[135]:=
```
FlakeModel = Wpdata (Crdata + Midata) Tkdata Fodata Fidata Dtdata Audata;
```

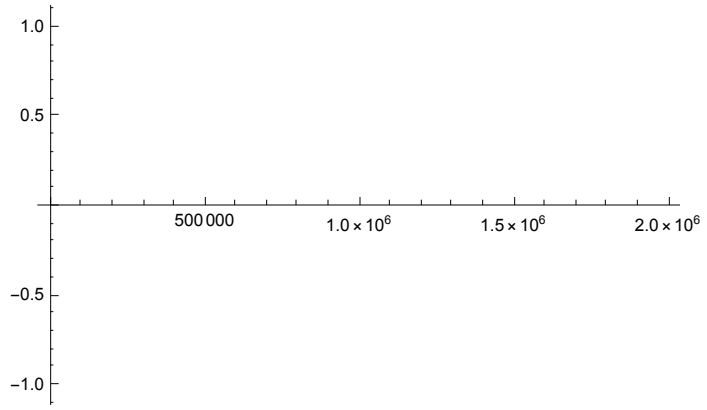
In[140]:=
```
Histogram[FlakeModel]
```

Out[140]=



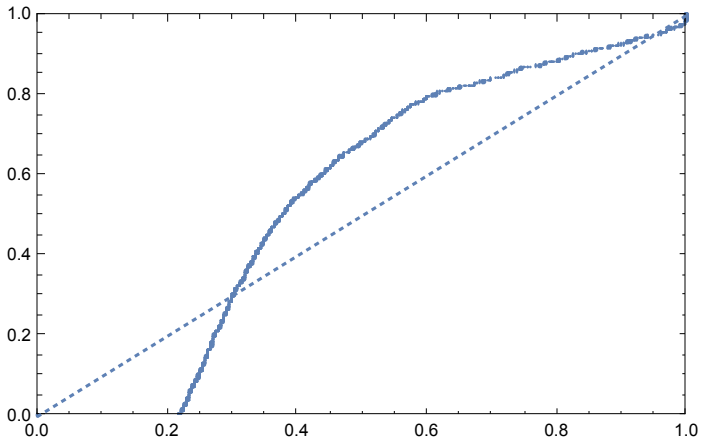
In[142]:=
```
Plot[CDF[FlakeModel, x], {x, 0, 2 × 10^6}]
```

Out[142]=



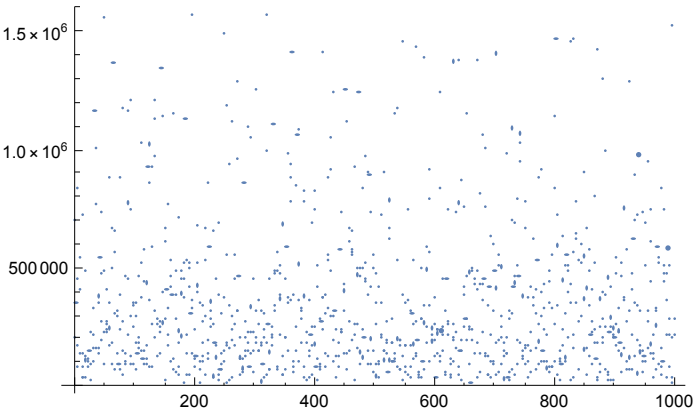
In[143]:=
```
ProbabilityPlot[FlakeModel]
```

Out[143]=



In[144]:=
```
ListPlot[FlakeModel]
```

Out[144]=

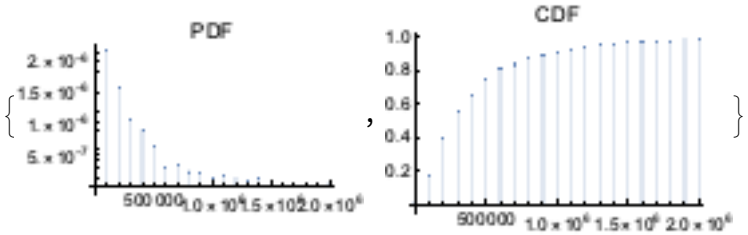


In[146]:=
```
HistogramDistribution[FlakeModel]
```

Out[146]=
```
DataDistribution[ Type: Histogram
                  Data points: 1000 ]
```

In[149]:=
```
DiscretePlot[#[HistogramDistribution[FlakeModel], x],
    {x, 0, 2 × 10^6, 10^5}, PlotLabel → #] & /@ {PDF, CDF}
```

Out[149]=



In[153]:=
```
distro = HistogramDistribution[FlakeModel]
```

Out[153]=
```
DataDistribution[ Type: Histogram
                  Data points: 1000 ]
```

In[155]:=
```
DiscretePlot[#[HistogramDistribution[FlakeModel], x],
    {x, 0, 0.8 × 10^6, 10^4}, PlotLabel → #] & /@ {PDF, CDF}
```

Out[155]=