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*2018 Signal Processing  
in 5G Lecture 4 with  
Revision / Prof. Ratnesh  
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Advanced Signal  
Processing for Massive  
MIMO “Digital Signal  
Processing: Road to the  
Future”- Dr. Sanjit  
Mitra

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Digital Signal  
Processing (DSP)  
Tutorial - DSP with the  
Fast Fourier Transform

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*MIMO Networks* **How**

**will wireless 5G**

**technology handle 1**

**000 times more data?**

**What is Beamforming**

**(Massive MIMO)?**

**Find Out With**

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**Empirical** *What is DSP?*

*Why do you need it?*

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5G Course - massive  
MIMO Beamforming  
and deployment aspects

*Signal Processing and  
Machine Learning* 2.8

~~MIMO TECHNIQUES~~

~~CAPACITY~~

~~COVERAGE~~

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~~4G LTE~~ Sampling,

Aliasing

**Nyquist Theorem**

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5G cellular networks: 6

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*Processing Algorithms*

*(UDRC) Digital Signal*

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*Algorithms (DSP) Open*

*Science Book - Massive*

*MIMO Networks*

*Finalist #1: Fast Beam*

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*Alignment in Millimeter*

*Wave Radios Digital*

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6G: Massive MIMO is a

Reality—What is Next?

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multiplexing, 3D  
beamforming and  
diversity.

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Signal Processing for  
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This book is a  
comprehensive and  
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signal processing  
techniques employed in  
5G wireless networks.

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Uniquely organized into

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Modulation and Coding,

New Spatial Processing,

New Spectrum

Opportunities and New

System-level Enabling

Technologies, it covers

everything from

network architecture,

physical-layer (down-

link and up-link),

protocols and air

interface, to cell

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MIMO), FD-MIMO and  
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diversity.

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Implementations. Fa-  
Long Luo, Charlie  
(Jianzhong) Zhang. A

comprehensive and  
invaluable guide to 5G  
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volume. For all things  
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read. Signal processing  
techniques have played

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the most important role  
in wireless  
communications since  
the second generation of  
cellular systems.

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practice in one single volume. For all things 5G, this book is a must-read. Signal processing techniques have played the most important role in wireless communications since the second generation of cellular systems. It is anticipated that new techniques employed in 5G wireless networks will not only improve

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peak service rates  
significantly, but also  
enhance capacity,  
coverage, reliability,  
low-latency, efficiency,  
...

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PROCESSING FOR 5G

ALGORITHMS AND

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IMPLEMENTATIONS

Edited by Fa-Long Luo,  
Ph.D., IEEE Fellow

Charlie (Jianzhong)

Zhang, Ph.D., IEEE

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5G wireless technology

is developing at an

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explosive rate and is one of the biggest areas of research within academia and industry.

In this rapid development, signal processing techniques are playing the most important role. In 2G, 3G and 4G, the peak service rate was the dominant metric for performance. Each of these previous



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generations was defined by a standout signal processing technology that represented the most important advance made.

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Preface - Signal

Processing for 5G:

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multiple-input multiple-output (massive-MIMO), FD-MIMO and 3D-MIMO along with orbital angular momentum multiplexing, 3D beamforming and diversity.

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Time: 00:55:58. Large-

scale antenna arrays,

also known as massive

MIMO, are key enablers

for 5G and beyond

networks, which,

however, bring

tremendous pressures on

hardware cost and

energy consumption.

Hybrid beamforming

architectures have been

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recently proposed as a promising solution for the cost-effective implementation of massive MIMO, but they also bring formidable challenges to beamforming algorithm design, which differs fundamentally from that of the fully digital one.

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