

## Pive Sonar Array Sub Space Processing Based On Modal

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The Triumphant-class is young—the last hull entered service just 10 years ago. But, as global threats change, the navy has to adapt as well.

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Multibeam sonar ... space both directly under the ship and out to each side. Multibeam collects two types of data: seafloor depth and backscatter. The seafloor depth, or bathymetry, is computed by ...

[Multibeam Sonar](#)

The aft (rear) ends of the 94As now have storage space for a towed sonar array. This type of passive (listen-only) sonar can be deployed behind the sub via a cable that supplies power and links the ...

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LENSEC, the provider of IP-based video surveillance management, announces the release of its perspective VMS Version 4.4.1 that will provide users access to integrations with intrusion, ...

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Especially in the war's early days, submarine crews and sonar operators listening for ... had registered an astonishing array of sounds, including "beeping, clicking, creaking, harsh croaking ...

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the multi-camera mode shows small live previews of the various lenses primed to take simultaneous shots inset in the screen's bottom-right corner, visible but not in the way. The camera app has the ...

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For the iPhone 12 Pro and iPhone 12 Pro Max, Apple added LiDAR sensors to the rear camera array. Primarily ... overlaying virtual objects in a real space. The more phones that are capable of ...

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But now, investors, international companies, and social media platforms are showing a huge appetite for the space, prompting growth ... and a growing array of connected devices, African film ...

[African entertainment comes into its own](#)

Miami-Dade Fire Chief Alan Cominsky said rescuers were focusing underneath the rubble for signs of survivors with K-9 and sonar teams and ... boy and his mother, who live nearby, for the gesture.

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Other than leaning on history in energetic live sound, however ... have trouble accurately expressing the lowest of the deepest sub-bass—par for the course with even the best portable speakers ...

[JBL Charge 5 review: A rugged, portable Bluetooth speaker with battery to spare](#)

Across the board, connectivity between sub-\$100 earbuds and devices wasn't ... are extremely rare — the \$169 Samsung Galaxy Buds Live technically offer ANC, but it's not very noticeable lik ...

[Best true wireless earbuds of 2021](#)

(AP Photo/Sergey Krasnoukhov) KAMPALA, Uganda — Uganda is tightening its lockdown measures to try and stem a surge in coronavirus infections in the East African country that is seeing an array ...

[The Latest: Uganda tightening measures due to virus surge](#)

Known as the live music capital of the world ... Bristol's Birthplace of Country Music Museum, a 7,300-square metre space, houses an array of permanent and travelling displays, a performance ...

How does the Star Trek universe stack up against the real universe? What warps when you're traveling at warp speed? What is the difference between a wormhole and a black hole? Are time loops really possible, and can I kill my grandmother before I am born? Anyone who has ever wondered "could this really happen?" will gain useful insights into the Star Trek universe (and, incidentally, the real world of physics) in this charming and accessible guide. Lawrence M. Krauss boldly goes where Star Trek has gone-and beyond. From Newton to Hawking, from Einstein to Feynman, from Kirk to Picard, Krauss leads readers on a voyage to the world of physics as we now know it and as it might one day be.

Sensors arrays are used in diverse applications across a broad range of disciplines. Regardless of the application, however, the tools of sensor array signal processing remain the same. Furthermore, whether your interest is in acoustic, seismic, mechanical, or electromagnetic wavefields, they all have a common mathematical framework. Mastering this framework and those tools lays a strong foundation for more specialized study and research. Sensor Array Signal Processing helps build that foundation. It unravels the underlying principles of the subject without reference to any particular application. Instead, the author focuses on the common threads that exist in wavefield analysis. After introducing the basic equations governing different wavefields, the treatment includes topics from simple beamformation, spatial filtering, and high resolution DOA estimation to imaging and reflector mapping. It studies different types of sensor configurations, but focuses on the uniform linear and circular arrays-the most useful configurations for understanding array systems in practice. Unique in its approach, depth, and quantitative focus, Sensor Array Signal Processing offers the ideal starting point and an outstanding reference for those working or interested in medical imaging, astronomy, radar, communications, sonar, seismology-any field that studies propagating wavefields. Its clear exposition, numerical examples, exercises, and wide applicability impart a broad picture of array signal processing unmatched by any other text on the market.

This is the first book to provide a single complete reference on microphone arrays. Top researchers in this field contributed articles documenting the current state of the art in microphone array research, development and technological application.

The 4-volume set LNCS 11632 until LNCS 11635 constitutes the refereed proceedings of the 5th International Conference on Artificial Intelligence and Security, ICAIS 2019, which was held in New York, USA, in July 2019. The conference was formerly called "International Conference on Cloud Computing and Security" with the acronym ICCCS. The total of 230 full papers presented in this 4-volume proceedings was carefully reviewed and selected from 1529 submissions. The papers were organized in topical sections as follows: Part I: cloud computing; Part II: artificial intelligence; big data; and cloud computing and security; Part III: cloud computing and security; information hiding; IoT security; multimedia forensics; and encryption and cybersecurity; Part IV: encryption and cybersecurity.

This book constitutes the refereed post-conference proceedings of the 12th International Conference on Wireless and Satellite Services, WiSATS 2021, held in Nanjing, China, in September 2020. Due to COVID-19 pandemic the conference was held virtually. The 79 full papers were carefully reviewed and selected from 140 submissions. The conference's central theme is the means of using the wireless and satellite services directly to the user for personal communications, multimedia and location identification. The services enabled by WiSATS not only cover the requirements of an ordinary citizen but also provide personal and public services for global coverage communications as the applications of internet of things. .

Category theory reveals commonalities between structures of all sorts. This book shows its potential in science, engineering, and beyond.

This collaborative work presents the results of over twenty years of pioneering research by Professor Simon Haykin and his colleagues, dealing with the use of adaptive radar signal processing to account for the nonstationary nature of the environment. These results have profound implications for defense-related signal processing and remote sensing. References are provided in each chapter guiding the reader to the original research on which this book is based.

Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database.

Sound source localization is an important research field that has attracted researchers' efforts from many technical and biomedical sciences. Sound source localization (SSL) is defined as the determination of the direction from a receiver, but also includes the distance from it. Because of the wave nature of sound propagation, phenomena such as refraction, diffraction, diffusion, reflection, reverberation and interference occur. The wide spectrum of sound frequencies that range from infrasounds through acoustic sounds to ultrasounds, also introduces difficulties, as different spectrum components have different penetration properties through the medium. Consequently, SSL is a complex computation problem and development of robust sound localization techniques calls for different approaches, including multisensor schemes, null-steering beamforming and time-difference arrival techniques. The book offers a rich source of valuable material on advances on SSL techniques and their applications that should appeal to researches representing diverse engineering and scientific disciplines.

The significantly expanded and updated new edition of a widely used text on reinforcement learning, one of the most active research areas in artificial intelligence. Reinforcement learning, one of the most active research areas in artificial intelligence, is a computational approach to learning whereby an agent tries to maximize the total amount of reward it receives while interacting with a complex, uncertain environment. In Reinforcement Learning, Richard Sutton and Andrew Barto provide a clear and simple account of the field's key ideas and algorithms. This second edition has been significantly expanded and updated, presenting new topics and updating coverage of other topics. Like the first edition, this second edition focuses on core online learning algorithms, with the more mathematical material set off in shaded boxes. Part I covers as much of reinforcement learning as possible without going beyond the tabular case for which exact solutions can be found. Many algorithms presented in this part are new to the second edition, including UCB, Expected Sarsa, and Double Learning. Part II extends these ideas to function approximation, with new sections on such topics as artificial neural networks and the Fourier basis, and offers expanded treatment of off-policy learning and policy-gradient methods. Part III has new chapters on reinforcement learning's relationships to psychology and neuroscience, as well as an updated case-studies chapter including AlphaGo and AlphaGo Zero, Atari game playing, and IBM Watson's wagering strategy. The final chapter discusses the future societal impacts of reinforcement learning.

