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Adaptive Phased Array Thermotherapy for Cancer

Senior Staff Alan J Fenn
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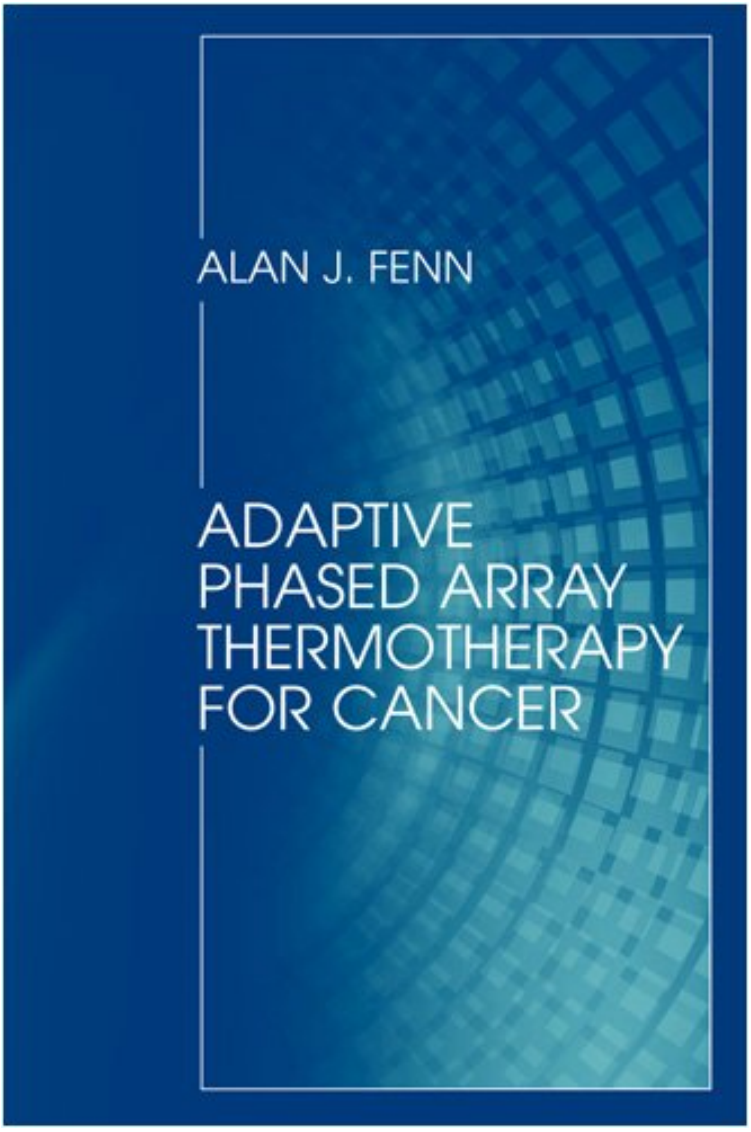

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Book Information Adaptive microwave phased array antennas are well known for their ability to improve the performance of communications and radar systems. And now, adaptive phased array techniques are beginning to be

successfully applied to RF and microwave thermotherapy treatment of cancerous tumors. This groundbreaking book details innovative phased array techniques currently being developed at the MIT Lincoln Laboratory for cancer treatment. Until now, this material has only been available in Lincoln Laboratory reports and peer-reviewed journals. From electromagnetic field theory for tissue heating... to simulations of adaptive phased array thermotherapy for deep tumors of the torso... to coverage of arrays for tumors in the head, neck, breast, and chest wall, this timely resource offers the expert guidance engineers and researchers need to work in this emerging area. Readers also find an insightful look at future research topics for adaptive phased array thermotherapy.

About the AuthorAlan J. Fenn is a senior staff member at the ISR Systems Group at MIT Lincoln Laboratory. Dr. Fenn holds an M.Sc. and Ph.D. in electrical engineering from Ohio State University. He is also the author of Adaptive Antennas and Phased Arrays for Radar and Communications (Artech House 2008).