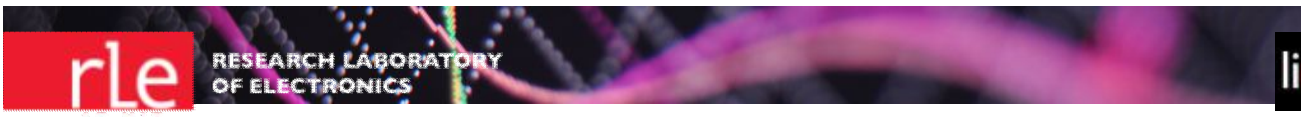


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### Jacob K. White



Professor Jacob K. White is a principal investigator of the Research Laboratory of Electronics (RLE) at the Massachusetts Institute of Technology (MIT). Professor White is a pioneer in numerical methods, particularly in computational prototyping tools and techniques for integrated circuit interconnect, circuit packaging, and micromachined devices.

### Group Websites

[Computational Prototyping Group](#)

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Major contributions by Professor White's research at RLE include computationally efficient numerical techniques used to simulate complicated three-dimensional structures. Applications of these techniques include the electrostatic and fluidic analysis of sensors and actuators, electromagnetic analysis of integrated-circuit interconnects and packaging, and potential flow-based analysis of wave-ocean structure interaction. Professor White's current research interests include serial and parallel numerical algorithms for problems in circuit, interconnect, and microelectromechanical system design.

Professor White received his undergraduate degree in electrical engineering and computer science from MIT in 1980, and his masters degree in 1983 and his doctorate in 1985 from the University of California, Berkeley, in the same discipline. He worked at the IBM T. J. Watson Research Center from 1985 to 1987. He joined the MIT faculty in 1987 as assistant professor in EECS, becoming associate professor in 1991 and full professor in 1996. In

December of 2001, Professor White was appointed as an Associate Director of the Research Laboratory of Electronics at MIT.

### Keywords

simulation and optimization,  
computational prototyping, numerical  
techniques, integral equations,  
integrated circuit interconnects,  
micromachined devices, biomolecules,  
sensors and actuators

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