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After a three-year PDF at Imperial College, he returned to India and has been with IIT Madras since 1995. He is currently a professor in the department of chemical engineering. Dr. Jayanti's research interests include computational fluid dynamics, multiphase flow, combustion and fuel cells.

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Fluid (gas and liquid) flows are governed by partial differential equations which represent conservation laws for the mass, momentum, and energy. Computational Fluid Dynamics (CFD) is the art of replacing such PDE systems by a set of algebraic equations which can be solved using digital computers.

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