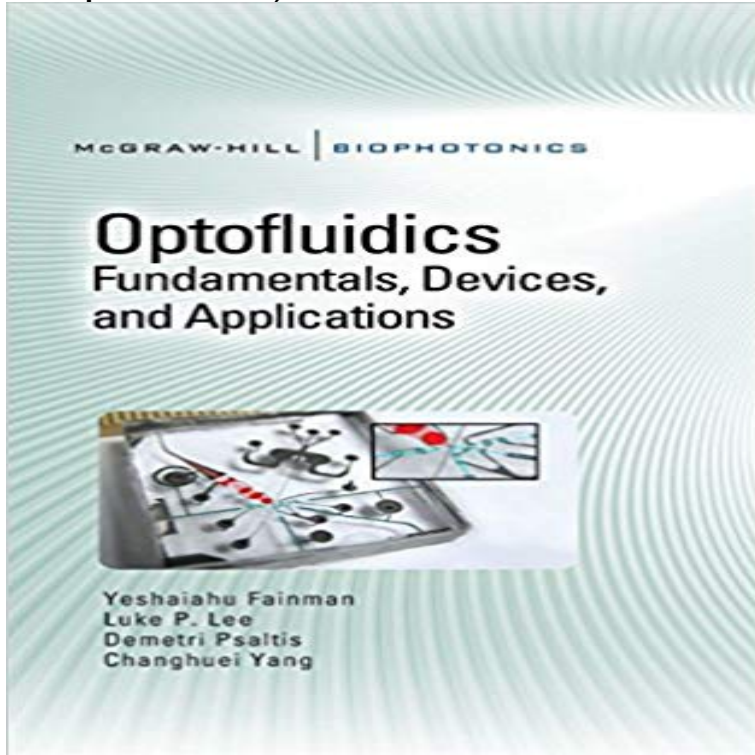


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Laboratory - Caltech Slutsky B, Pang L, Ptasinski J, Fainman Y. Optofluidics fundamentals, devices, and applications.

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