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Теоретические основы методов оптической визуализации и зондирования





Optical coherence tomography: The basics

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Houston



Houston, Texas, the nation's **fourth-largest city** and the energy capital of the world.



City of Houston has a 2010 population of 2.1 million (the metro area's population of 5.95 million)



If Houston were an independent nation, it would rank as the world's 30th largest economy



Houston has a Theater District second only to New York City with its concentration of seats in one geographic area



And, of cause, Houston is the home for NASA and word-famous Rodeo

University of Houston



- 40,000 students enrolled
- Earns Tier One research university distinction (Research-Very High) from the Carnegie Foundation



Review, 2011) Among the nation's top 50 public research universities (Top American Research University Report, 2010)

Chosen as one of the nation's best colleges for undergraduate education (The Princeton



Voted in 2014 as 3rd most beautiful campus in US

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Introduction

- One of the most prospective trends of biomedical optics is medical noninvasive optical diagnostics and monitoring of diseases
- The complexity of tissue organization and its involvement into living organism (organ) functioning require the development of multidisciplinary approaches for description of tissue optics (or biophotonics)
- Light application in medicine is based on the usage of a great number of phenomena connected with different types of coherent and non-coherent light interaction with tissues and cells























































