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Nota di contenuto	Intro -- BOLOMETERS: THEORY, TYPES AND APPLICATIONS -- BOLOMETERS: THEORY, TYPES AND APPLICATIONS -- CONTENTS -- PREFACE -- Chapter 1 THIN FILM MICRO-BOLOMETERS WITH SI-GE THERMO-SENSING FILMS DEPOSITED FROM PLASMA DISCHARGE -- ABSTRACT -- 1. INTRODUCTION -- 2. PRINCIPLE OF PERFORMANCE -- 2.1. Bolometer Operation -- 2.2. Characteristics of the Bolometer -- a) Responsivity -- b) Noise -- c) Detectivity -- d) Thermal Response Time -- 3. REQUIREMENTS FOR DESIGN AND MATERIALS -- 3.1. Properties of Bolometer Materials -- a) Temperature Coefficient of Resistance -- b) Thermal Conductance -- c) Thermal Capacitance -- 4. SILICON-GERMANIUM AS THERMO-SENSING MATERIAL DEPOSITED BY PLASMA -- 4.1. Different Thermo Sensing Materials -- 4.2. Study of Silicon-Germanium Thin Films Deposited by Plasma -- a) Deposition rate (Vd) -- b) Composition -- c) Electrical Properties -- 4.3. Study of Silicon-Germanium-Boron Alloys as Thermo-Sensing Films -- a) Samples Preparation -- b) Results of Films Characterization -- 5. MODELING -- 5.1. Introduction -- 5.2. 2D Modeling -- 5.3. Results of Modeling -- 5.4. Experimental Results Relevant to Modeling -- 6. MICRO-BOLOMETERS CONFIGURATIONS AND FABRICATION -- 6.1. Micro-

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