

LIST OF ACRONYMS

AES	Auger electron spectroscopy
AM1	Air Mass 1
a-Ge	Amorphous germanium
a-Si:D	Deuterated amorphous silicon
a-Si:H	Hydrogenated amorphous silicon
a-Si _{1-x} C _x :H	Hydrogenated amorphous silicon carbon alloy
a-Si _{1-x} Ge _x :H	Hydrogenated amorphous silicon germanium alloy
c-GaAs	Crystalline gallium arsenide
c-Ge	Crystalline germanium
CPM	Constant photocurrent measurement
c-Si	Crystalline silicon
C-V	Capacitance-voltage
DLTS	Deep-level transient spectroscopy
DOS	Density-of-state distribution
D ⁰	Singly-occupied dangling bond
D _L ⁰	D ⁰ with ν_{n2}
D ⁻	Doubly-occupied dangling bonds
EPMA	Electron probe microanalysis
ESR	Electron spin resonance
HBT	Heterojunction bipolar transistor
HMC	Heterojunction-monitored capacitance
I-V	Current-voltage
ICTS	Isothermal capacitance transient spectroscopy
MOS	Metal-oxide-semiconductor
MPC	Modulated photocurrent
MTCE	Multistep-tunneling capture-emission
PAS	Photoacoustic spectroscopy
PDS	Photothermal deflection spectroscopy
p c-Si	p-type c-Si
p ⁺ c-Si	p-type c-Si with resistivity lower than 0.01 Ω cm
rf	Radio frequency
SCLC	Space-charge-limited current
SIMS	Secondary ion mass spectroscopy
S-W	Staebler-Wronski effect