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Chapter 4 Photostimulable Phosphor Image Capture

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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|  |  |  | 1P |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  H |  |  |  |  |  |  |  |  |  |  |  | 2I |  |  |  |  |  |  |  |  |  |  |  |  | 3P |  |
|  |  | 4F |  O |  C |  U |  S |  E |  D |  G |  R |  I |  D |  |  |  M |  |  |  |  |  |  |  |  |  |  |  |  |  R |  |
|  |  |  |  S |  |  |  |  |  |  |  |  |  |  |  |  A |  |  |  |  | 5G |  |  |  |  |  |  |  |  O |  |
|  |  |  |  P |  |  |  |  |  | 6B |  A |  C |  K |  I |  N |  G |  L |  A |  Y |  E |  R |  |  |  |  |  |  |  |  T |  |
|  |  |  |  H |  |  |  |  |  |  |  |  |  |  |  |  I |  |  |  |  |  I |  |  |  |  |  |  |  |  E |  |
|  | 7P |  |  O |  |  |  |  |  |  |  |  |  |  |  |  N |  |  | 8P |  |  D |  |  |  |  |  |  |  |  C |  |
|  |  H |  |  R |  |  |  |  | 9B |  |  |  |  |  |  |  G |  |  |  H |  |  F |  |  |  |  |  |  |  |  T |  |
| 10C |  O |  L |  L |  I |  M |  A |  T |  I |  O |  N |  |  |  |  |  P |  | 11M |  O |  I |  R |  E |  |  |  |  |  |  |  I |  |
|  |  S |  |  A |  |  |  |  |  T |  |  |  |  |  |  |  L |  |  |  T |  |  E |  |  |  |  |  |  |  |  V |  |
|  |  P |  |  Y |  |  |  |  |  D |  |  |  |  |  | 12M |  A |  S |  |  O |  |  Q |  |  | 13B |  |  |  |  |  E |  |
|  |  H |  |  E |  |  |  |  |  E |  | 14A |  |  | 15C |  |  T |  |  |  D |  |  U |  |  |  A |  |  |  |  |  L |  |
|  |  O |  |  R |  | 16S |  U |  P |  P |  O |  R |  T |  L |  A |  Y |  E |  R |  |  E |  |  E |  |  |  R |  |  |  |  |  A |  |
|  |  R |  |  |  |  |  |  |  T |  |  T |  |  |  S |  |  |  |  |  T |  |  N |  |  |  C |  |  | 17L |  |  Y |  |
|  |  C |  |  |  |  |  |  |  H |  |  I |  |  |  S |  | 18K |  |  |  E |  | 19C |  O |  L |  O |  R |  L |  A |  Y |  E |  R |
|  |  E |  |  |  |  | 20Q |  |  |  |  F |  |  |  E |  |  V |  |  |  C |  |  Y |  |  |  D |  |  |  S |  |  R |  |
|  |  N |  |  |  |  |  U |  |  |  |  A |  |  |  T |  |  P |  |  |  T |  |  |  |  |  E |  |  |  E |  |  |  |
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|  |  E |  |  | 22C |  O |  N |  D |  U |  C |  T |  I |  V |  E |  L |  A |  Y |  E |  R |  |  |  |  |  A |  |  |  |  |  U |  |
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|  |  |  |  |  |  |  U |  |  |  |  |  | 23F |  A |  S |  T |  S |  C |  A |  N |  D |  I |  R |  E |  C |  T |  I |  O |  N |  |
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|  |  |  | 25S |  H |  U |  T |  T |  E |  R |  I |  N |  G |  |  |  |  |  |  |  | 26G |  R |  I |  D |  R |  A |  T |  I |  O |  |
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|  |  |  |  |  | 27R |  E |  F |  L |  E |  C |  T |  I |  V |  E |  L |  A |  Y |  E |  R |  |  |  |  |  |  |  |  |  S |  |
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|  |  |  |  | 28P |  H |  O |  T |  O |  S |  T |  I |  M |  U |  L |  A |  B |  L |  E |  P |  H |  O |  S |  P |  H |  O |  R |  |  |  |

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| **Across****4.** grid in which the scatter absorbing lead lines are tilted so that, at a distance, the lines will coverage**6.** soft polymer that protects the back of the cassette**10.** reduction of the area of beam that reaches the patient through the use of two pairs of lead shutters**11.** grid line or image noise pattern ; zebra pattern **12.** milliampere-seconds**16.** semirigid material in the imaging plate that gives the imaging sheet some strength**19.** located between the active layer and the support that absorbs the stimulating light but reflects emitted light**22.** layer of material that will absorb and reduce static electricity**23.** movement of the laser along the imaging plate**24.** movement of the imaging plate through the reader ; also known as translation or subscan direction**25.** used to blacken out the white collimation borders in a digital image**26.** ratio of the height of the grid line to the width of the interspace material **27.** layer in the imaging plate that sends light in a forward direction when released in the cassette reader**28.** phosphor that produces light when stimulated by light or x-ray photons | **Down****1.** layer of photostimulable phosphor that traps electrons during exposure **2.** thin piece of plastic with several layers of material that capture and store image data**3.** thin, tough clear plastic covering the image plate for protection of the phosphor layer**5.** number of grid lines per inch **7.** area within the phosphor where electrons are trapped**8.** detects photostimulable phosphor**9.** the number of bits stored per pixel **13.** label attached to the cassette or to the imaging plate that identifies the plate for the purpose of matching the examination to the plate**14.** avoidable extraneous information on the image that interferes or distracts from image quality**15.** rigid plastic housing for the imaging plate**17.** light amplification of stimulated emission of radiation, a device that creates and amplifies a narrow intense beam of coherent light**18.** kilovoltage peak **20.** failure of an imaging system to record densities**21.** recording error in the digital image |